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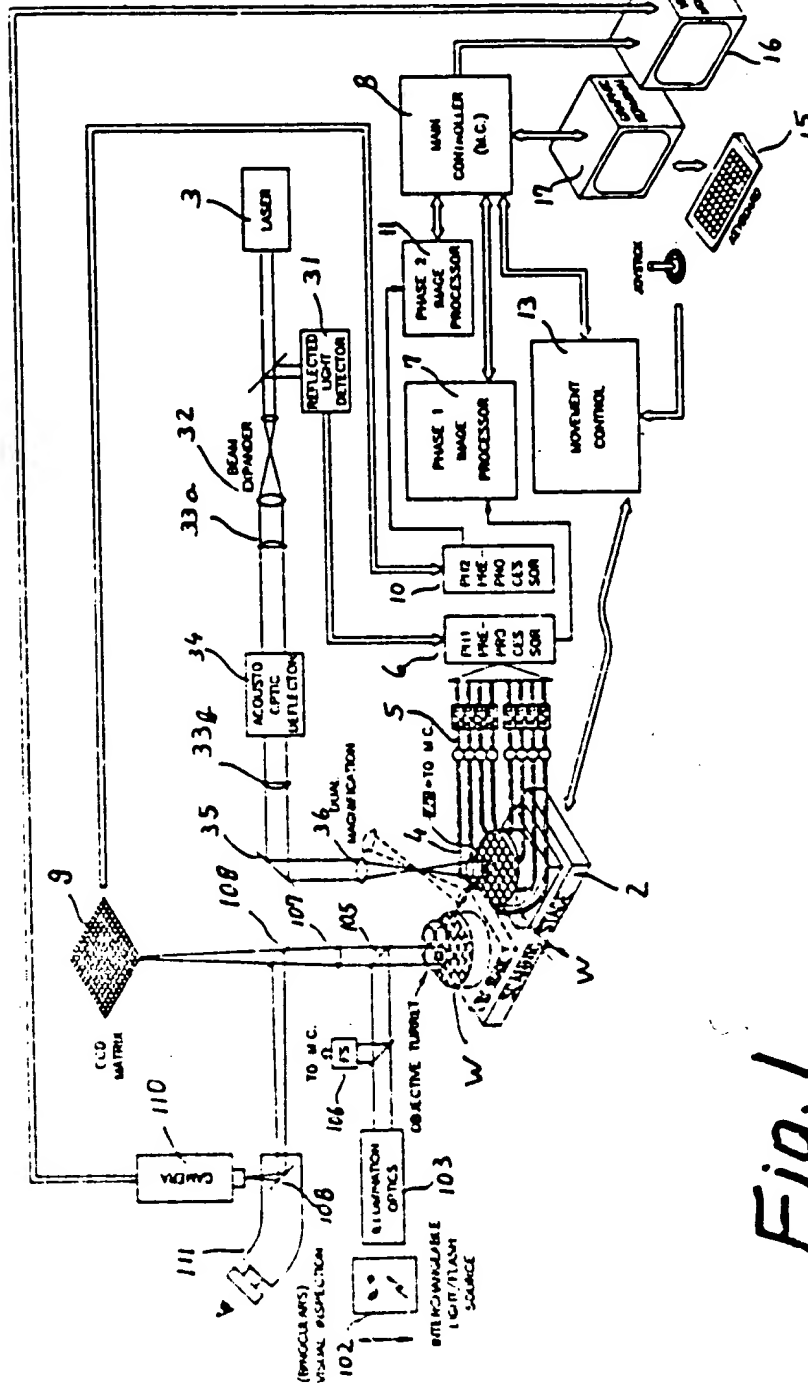
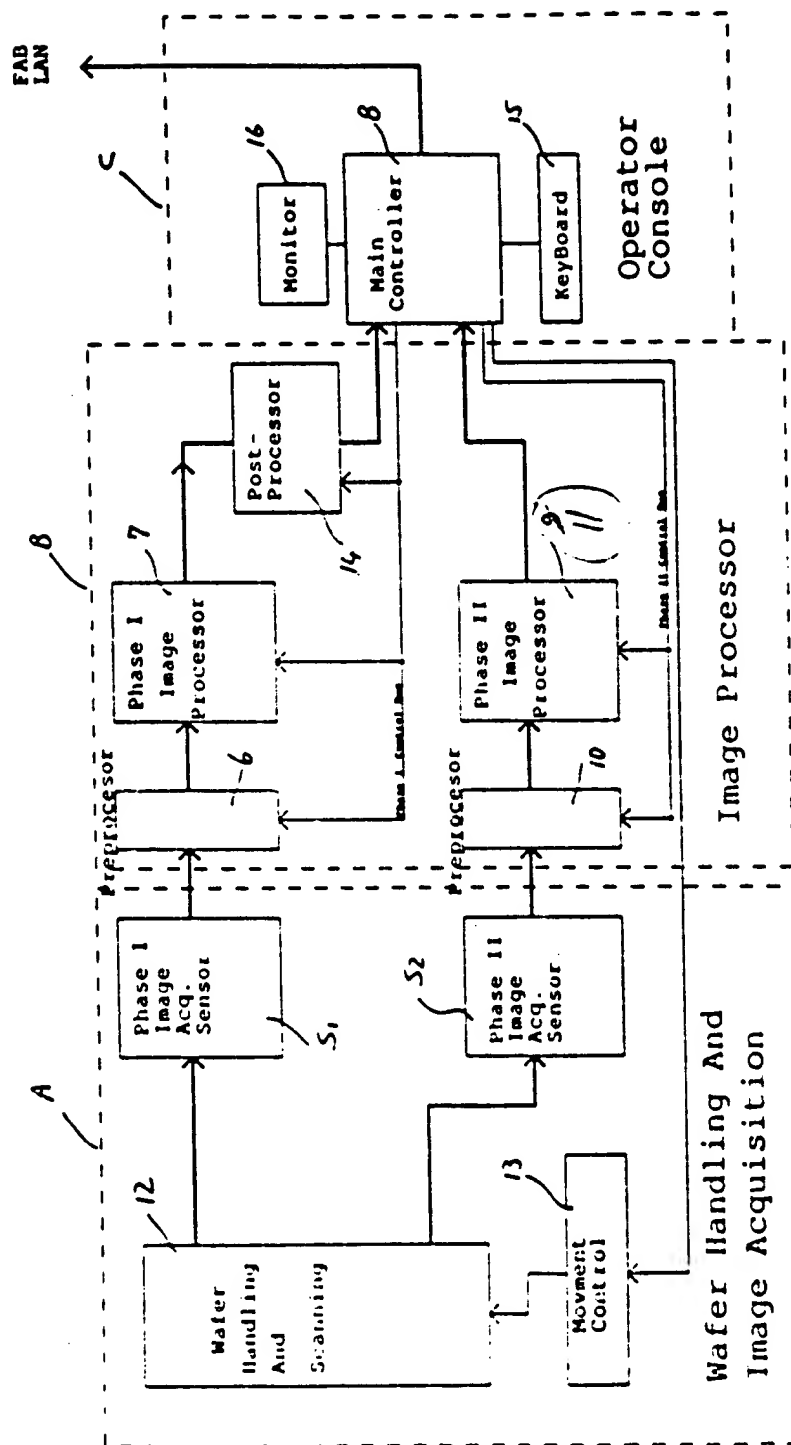


Fig. 1

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System Block Diagram

Fig. 2

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Fig 3

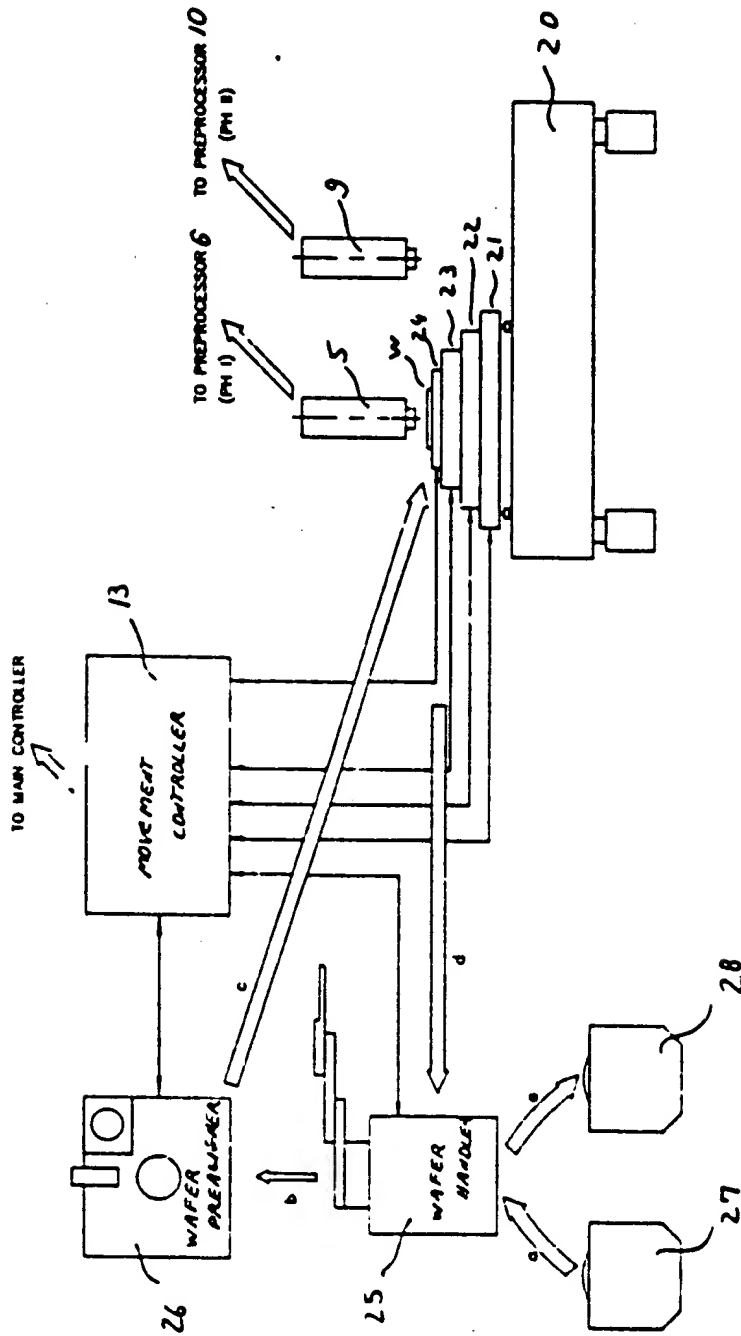


Fig 5

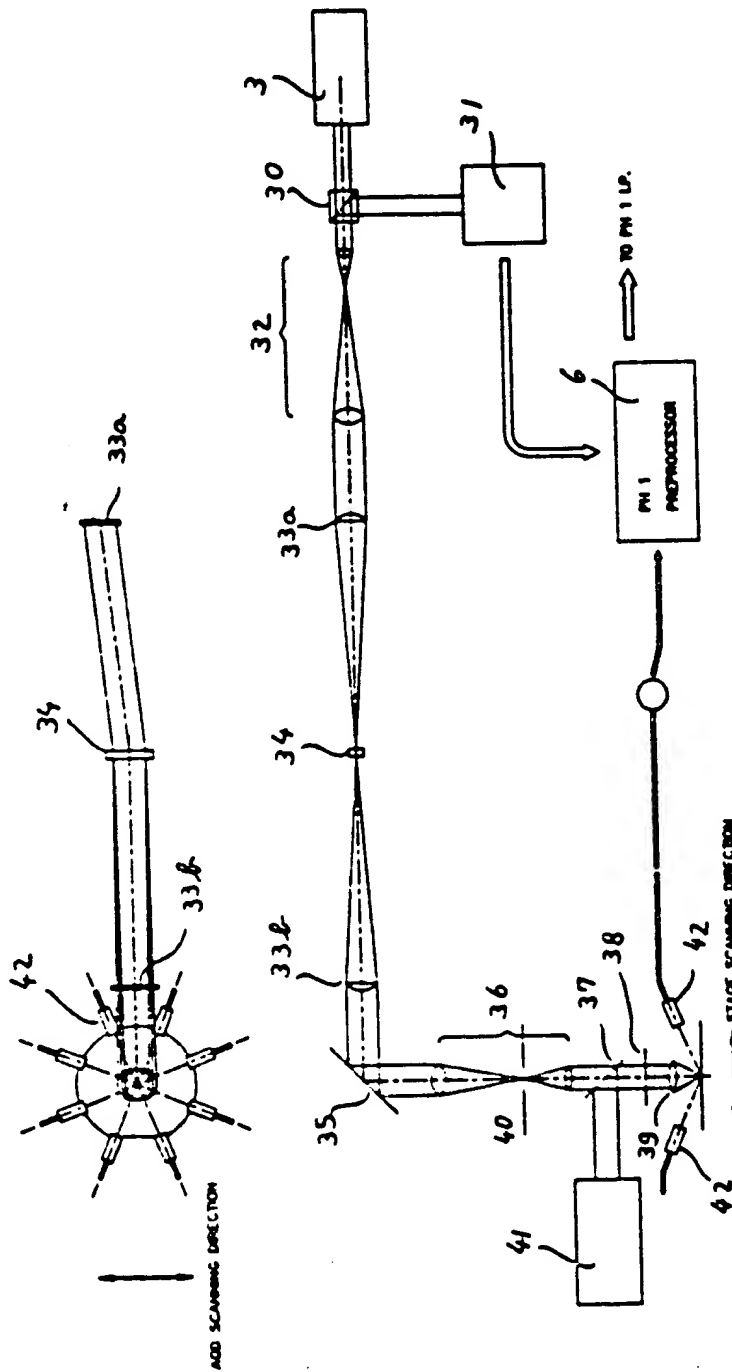
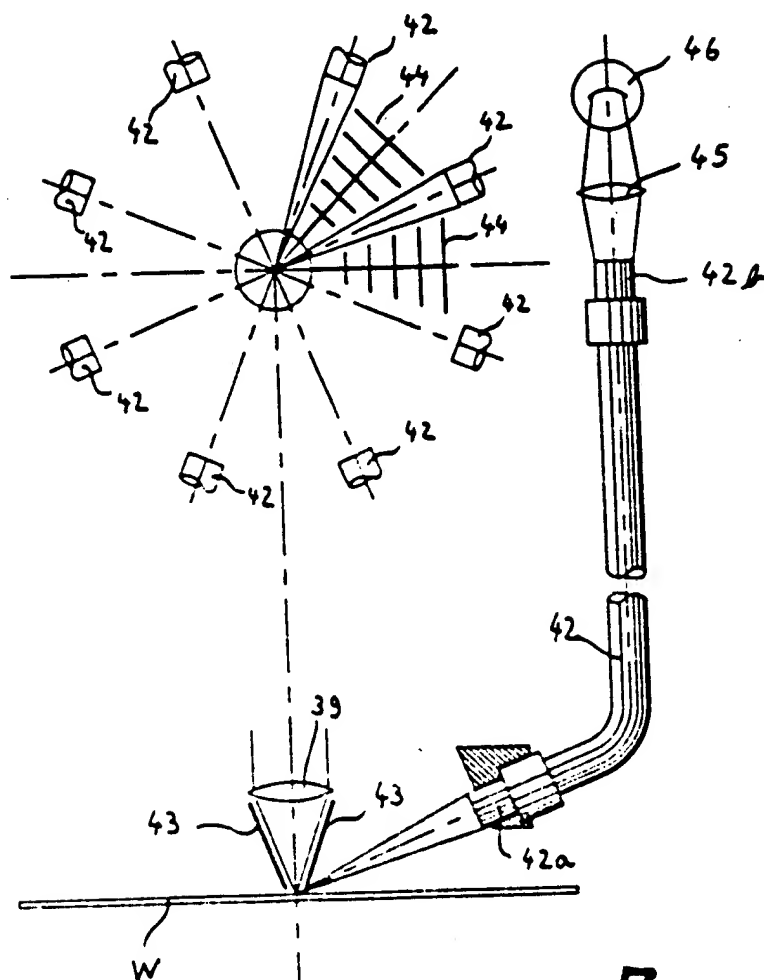


Fig. 4

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Fig 6Fig. 7

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Fig 6a

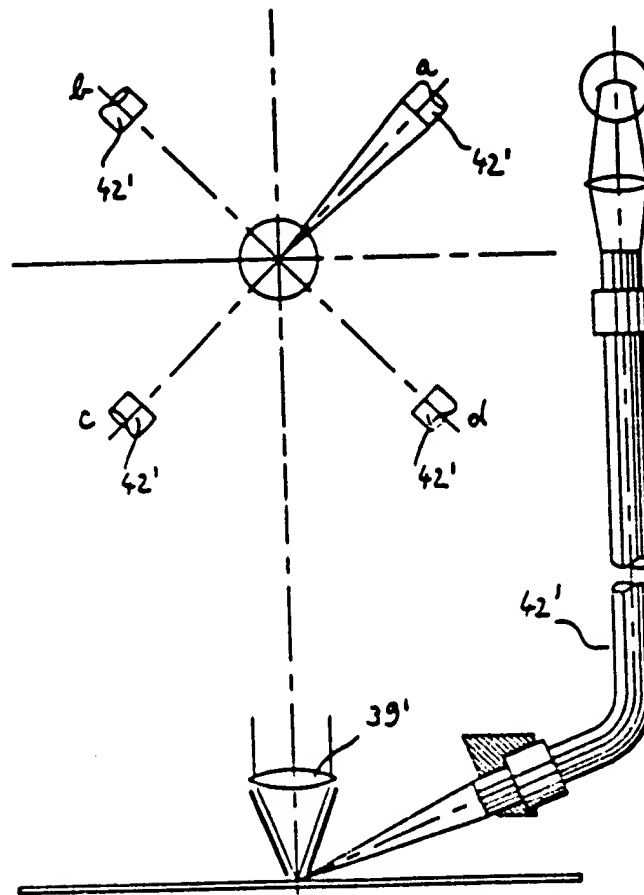
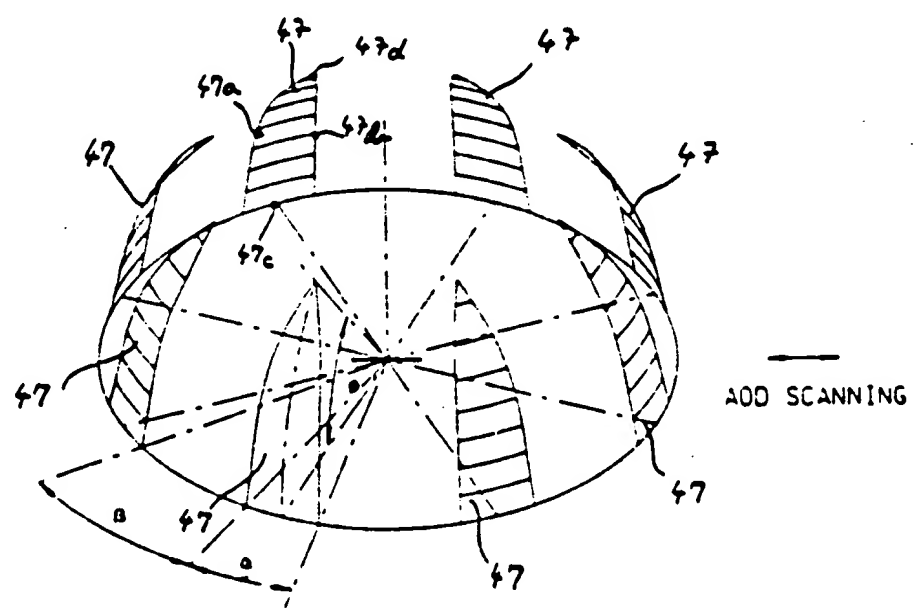


Fig 7a

11/790871

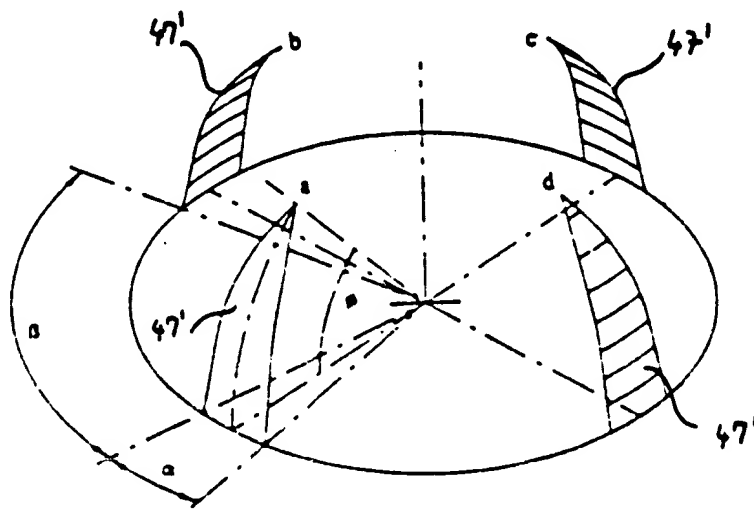
Fig. 8



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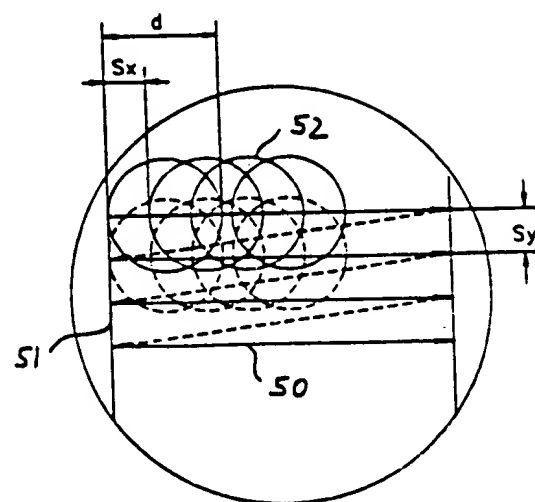
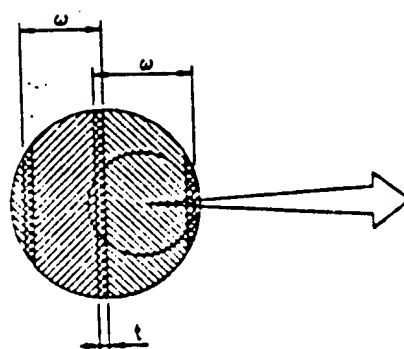
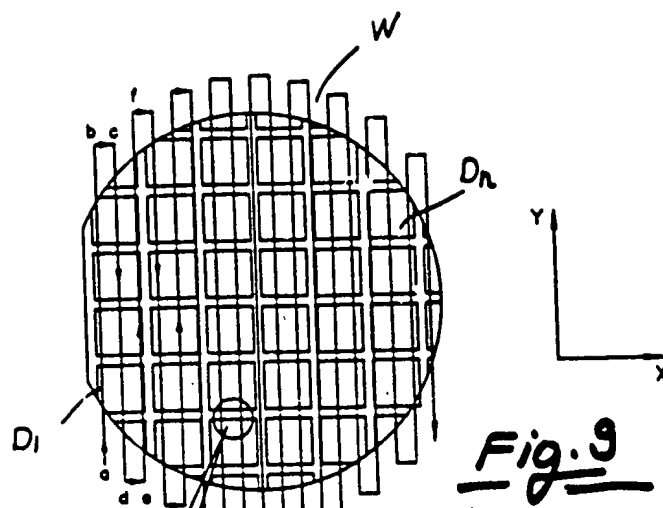
ADD SCANNING

Fig 8a

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Phase 1 I.P. OverAll Functional Block Diagram

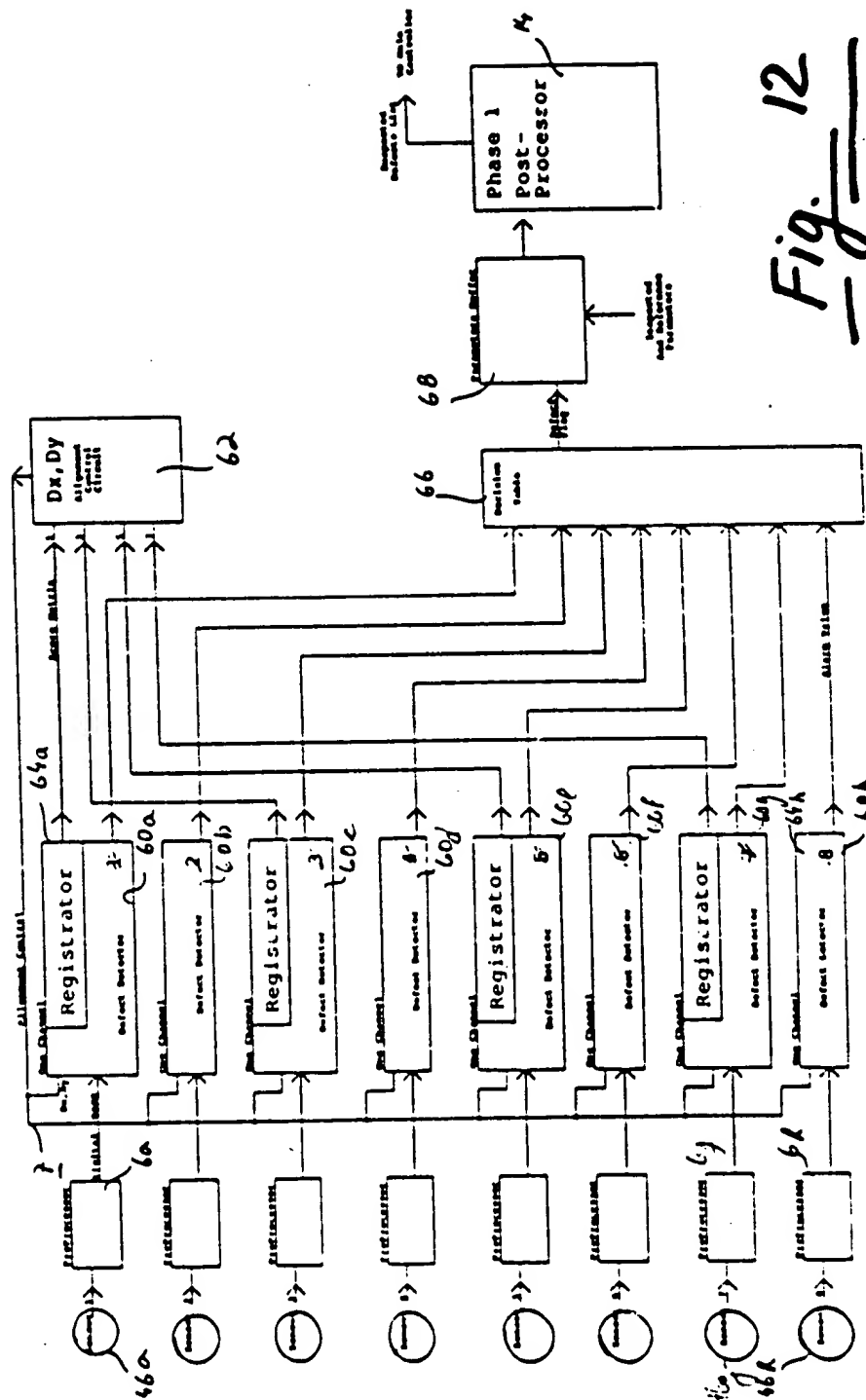


Fig. 12

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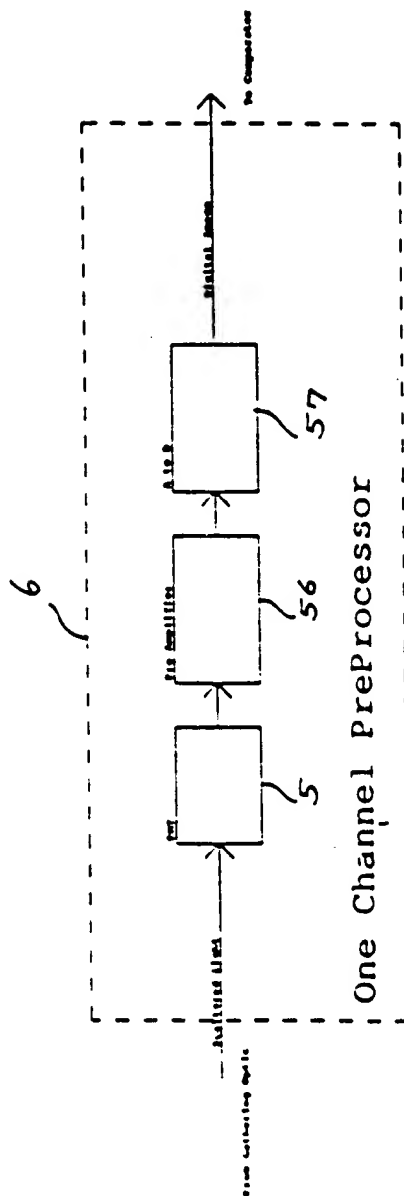
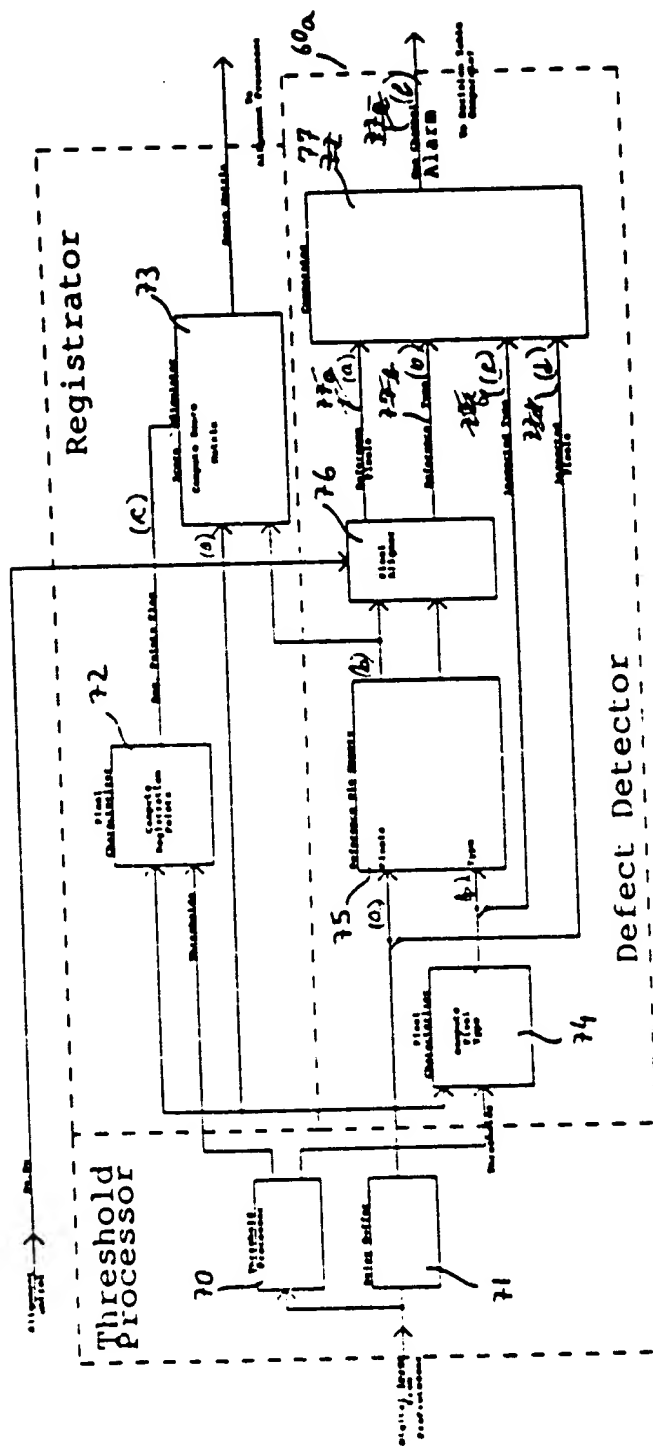


Fig. 13

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One Channel I.P. Block Diagram

Fig. 14

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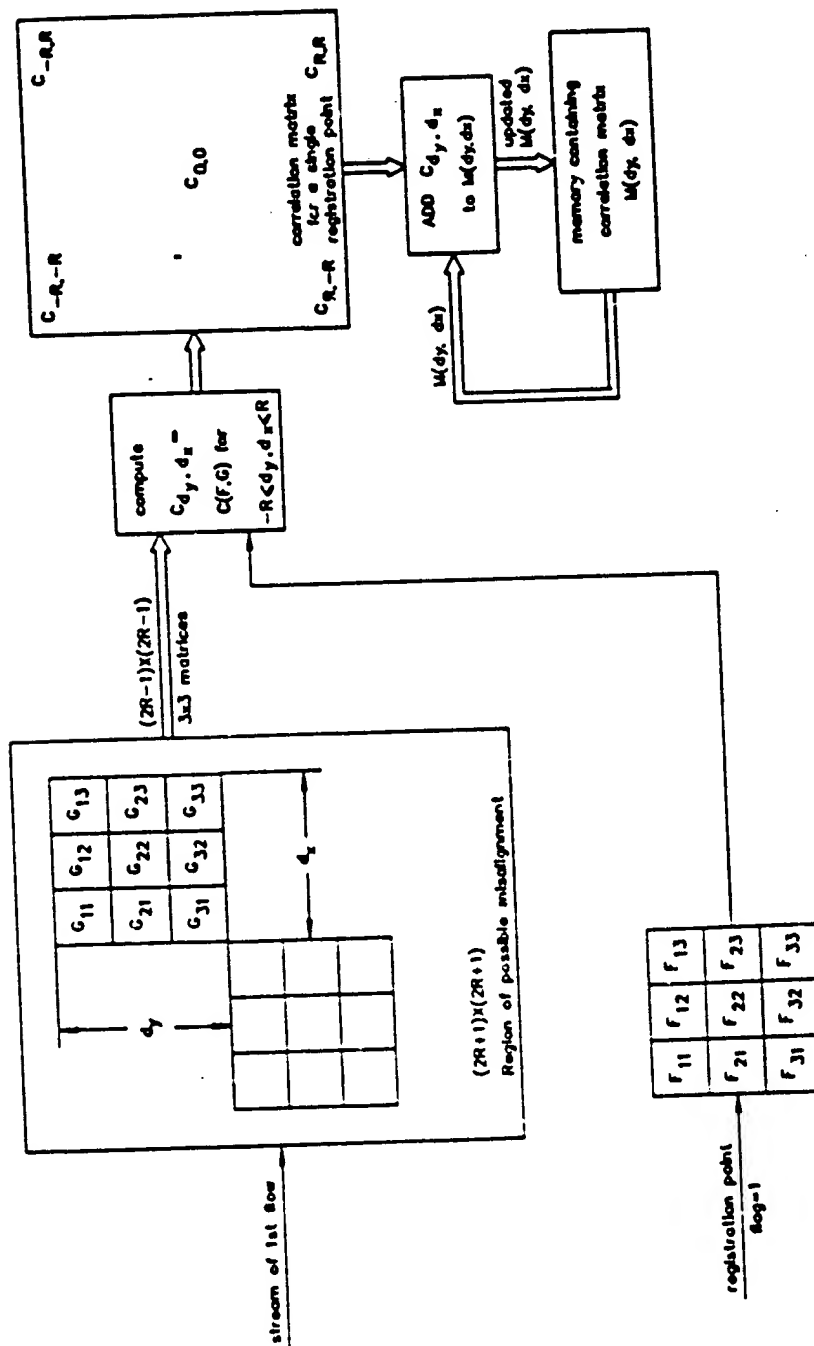
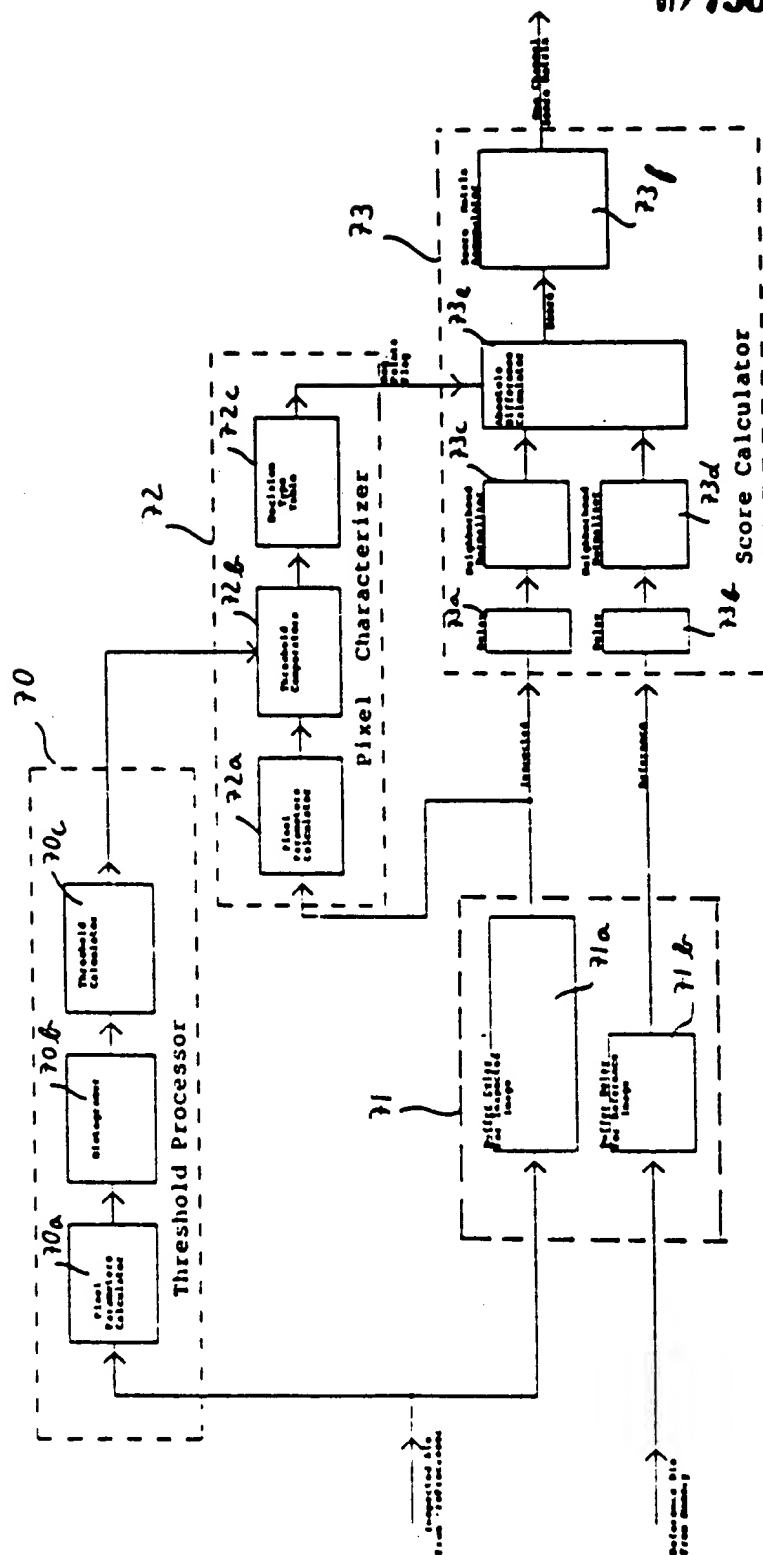


Fig. 14a

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Registrator Block Diagram

Fig. 15

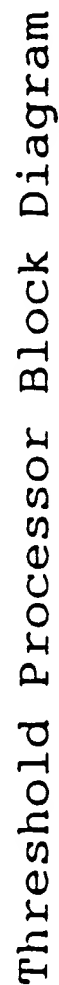
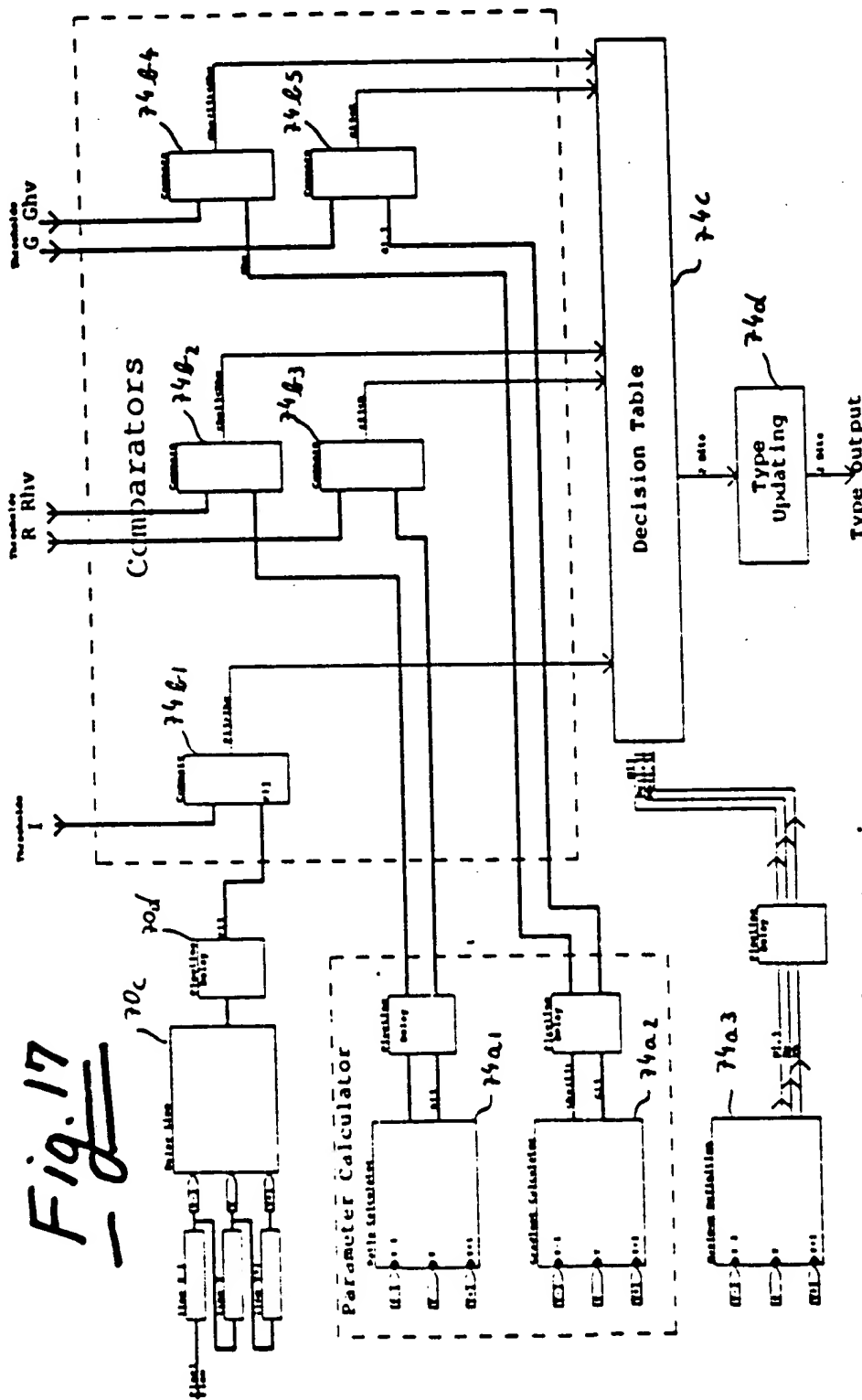


Fig. 16



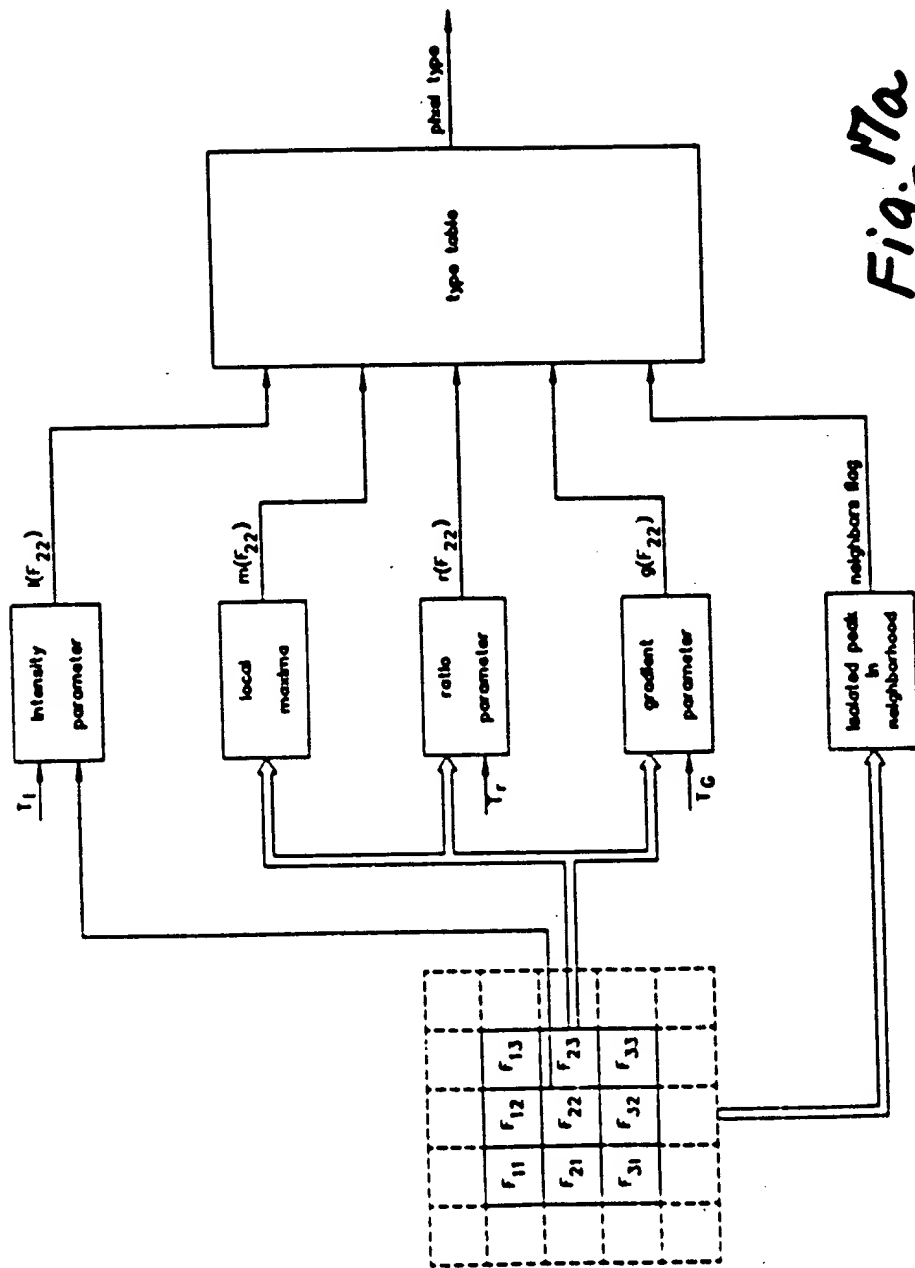


Fig. 17a

Fig. 21a

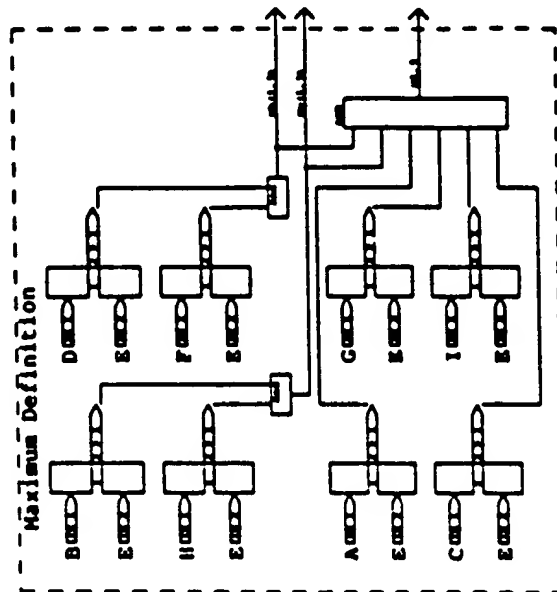
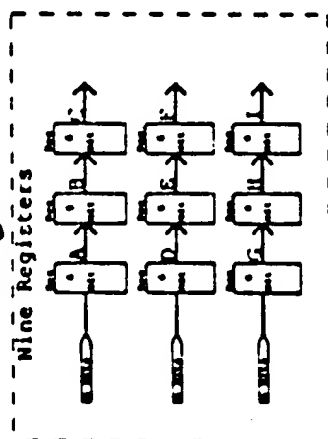
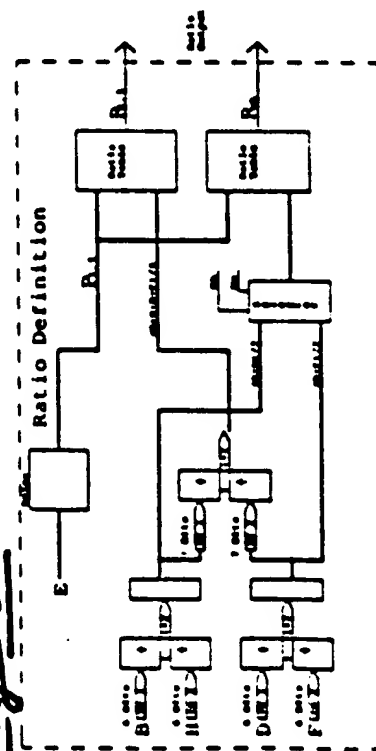


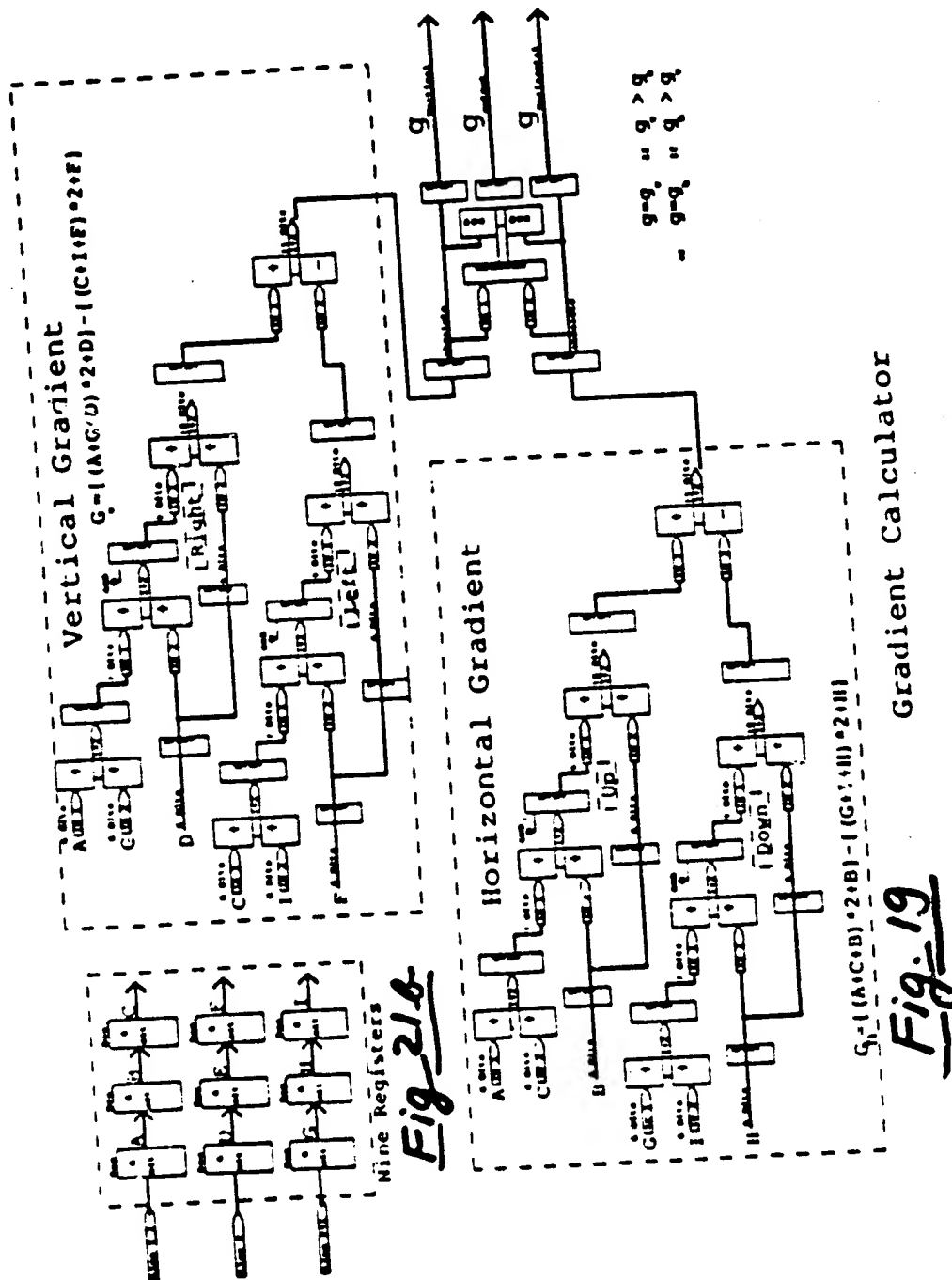
Fig. 20

Fig. 18



Ratio And Maximum Definition

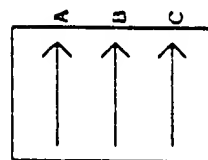
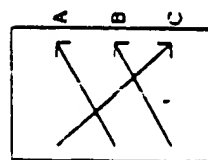
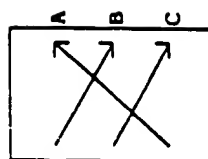
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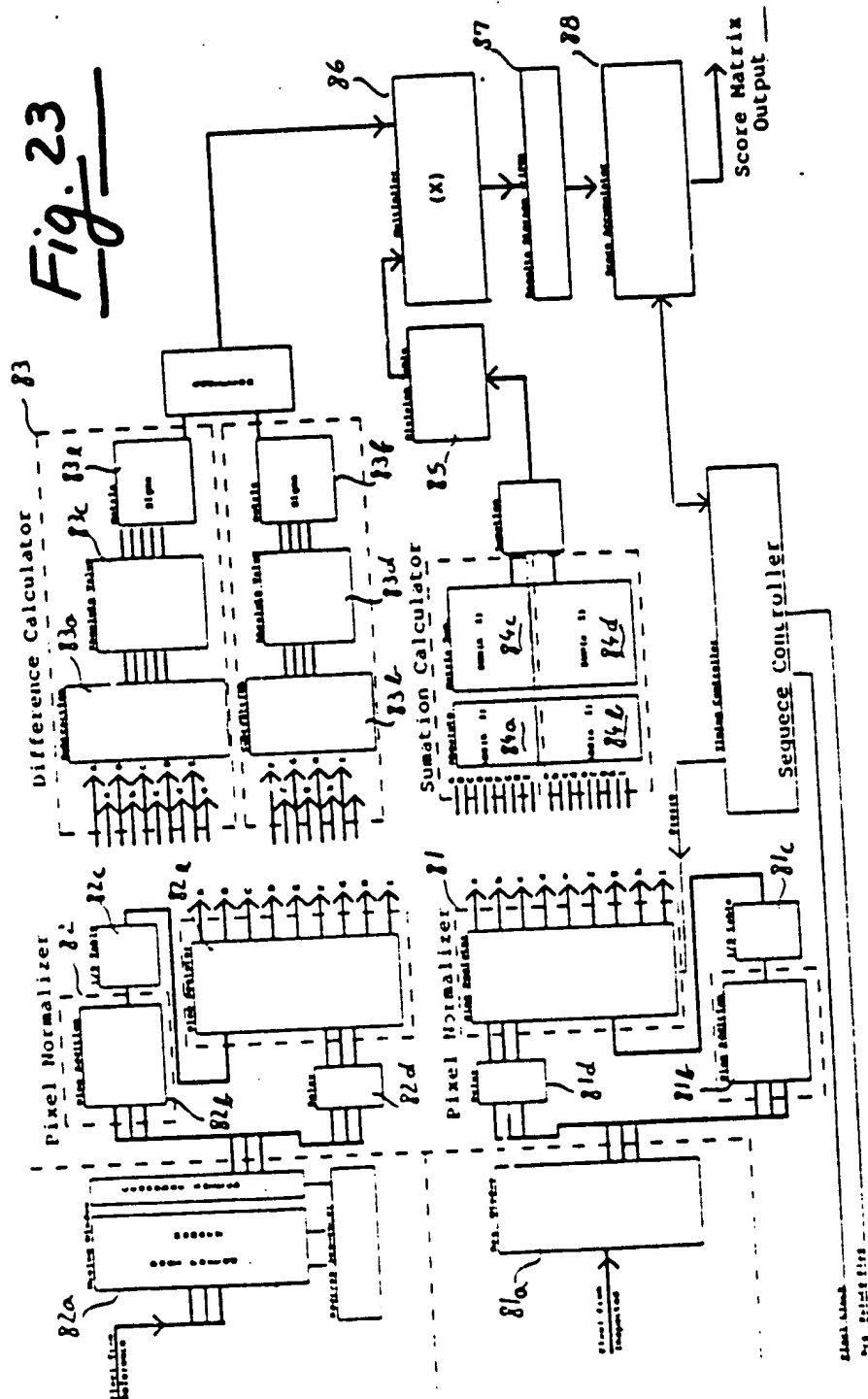


CrossBar Switch Combination

Fig. 22a

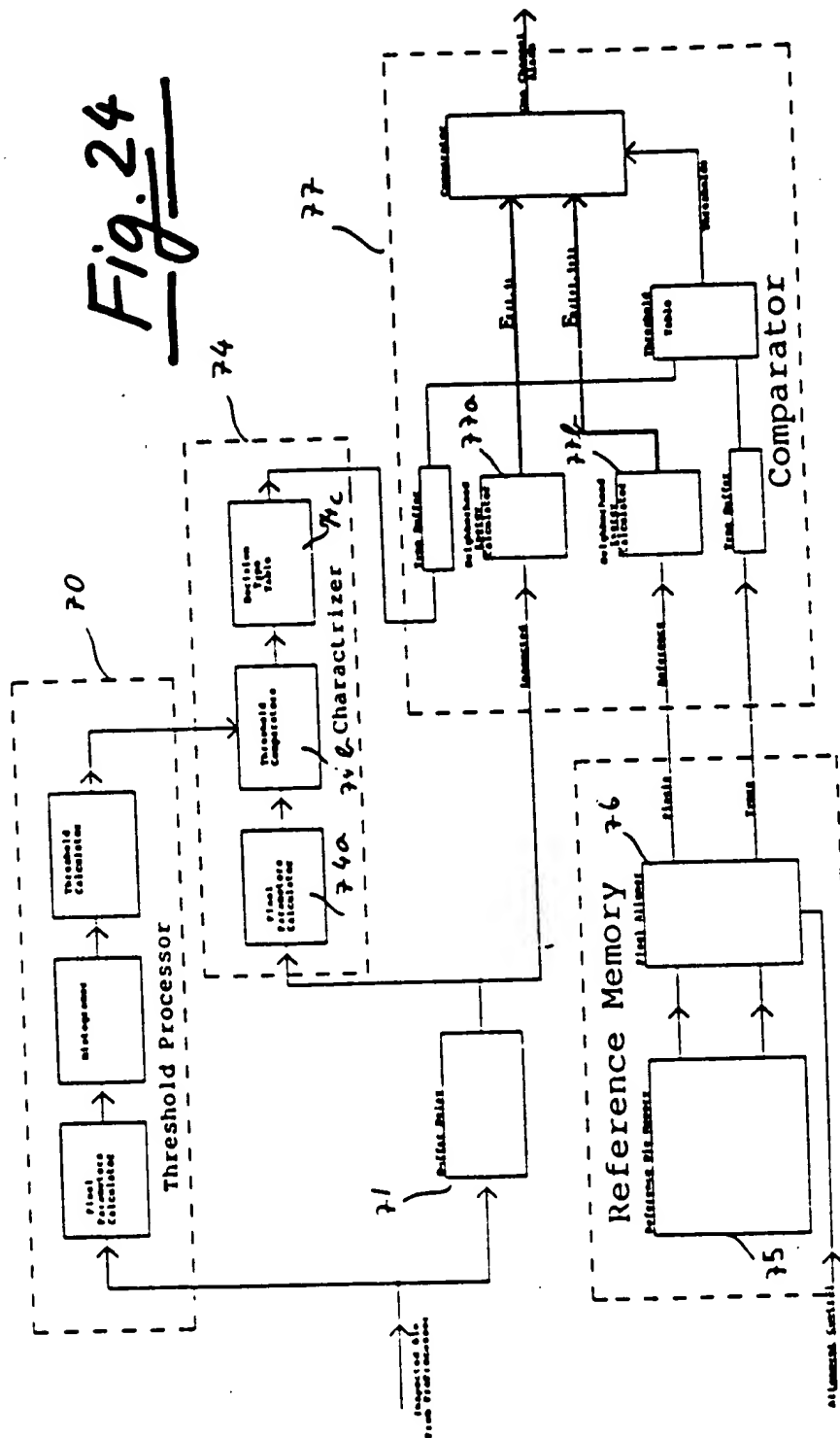
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Fig. 23



Registration Score Calculator

Fig. 24



Defect Detector Block Diagram

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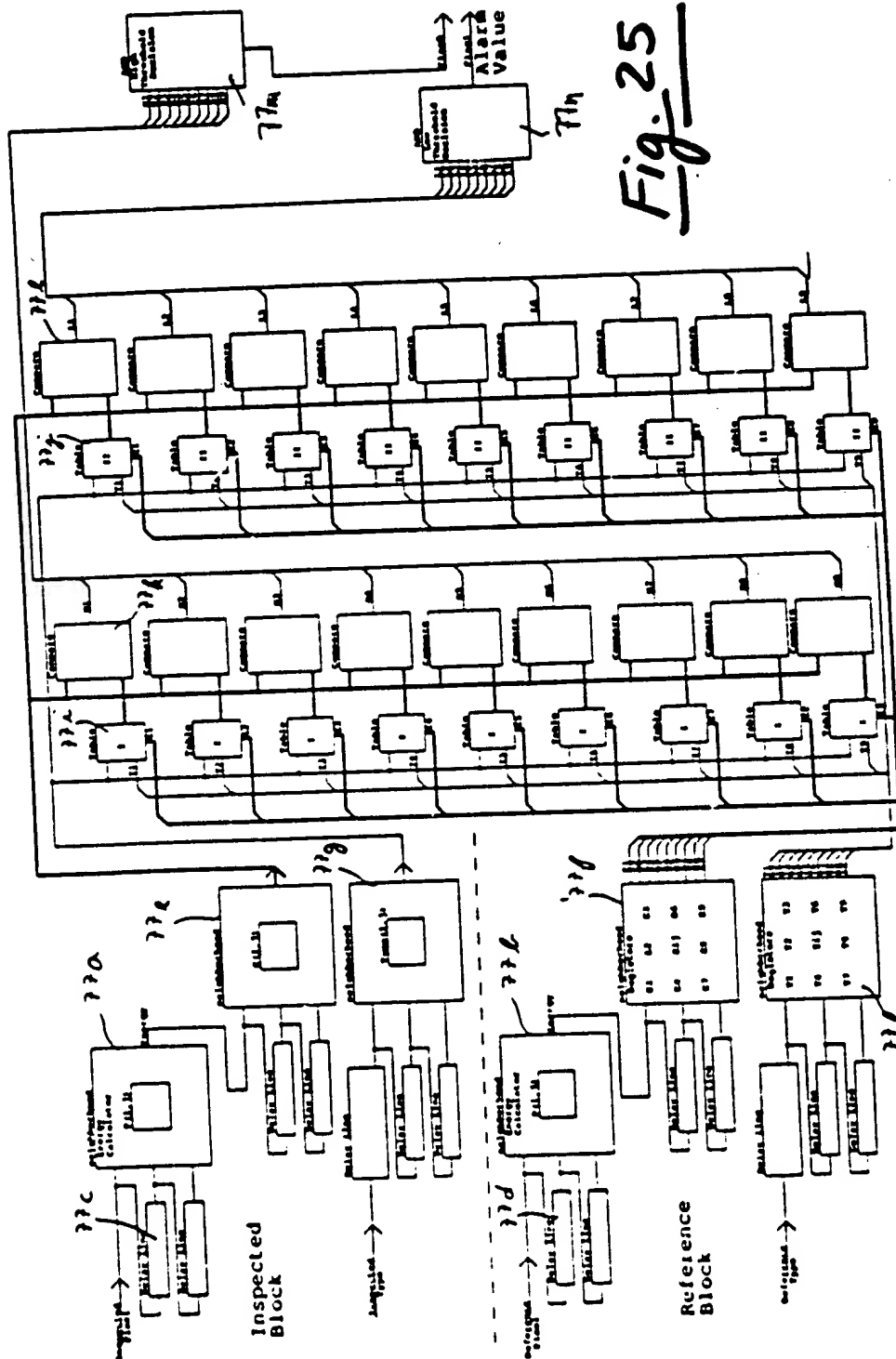


Fig. 25

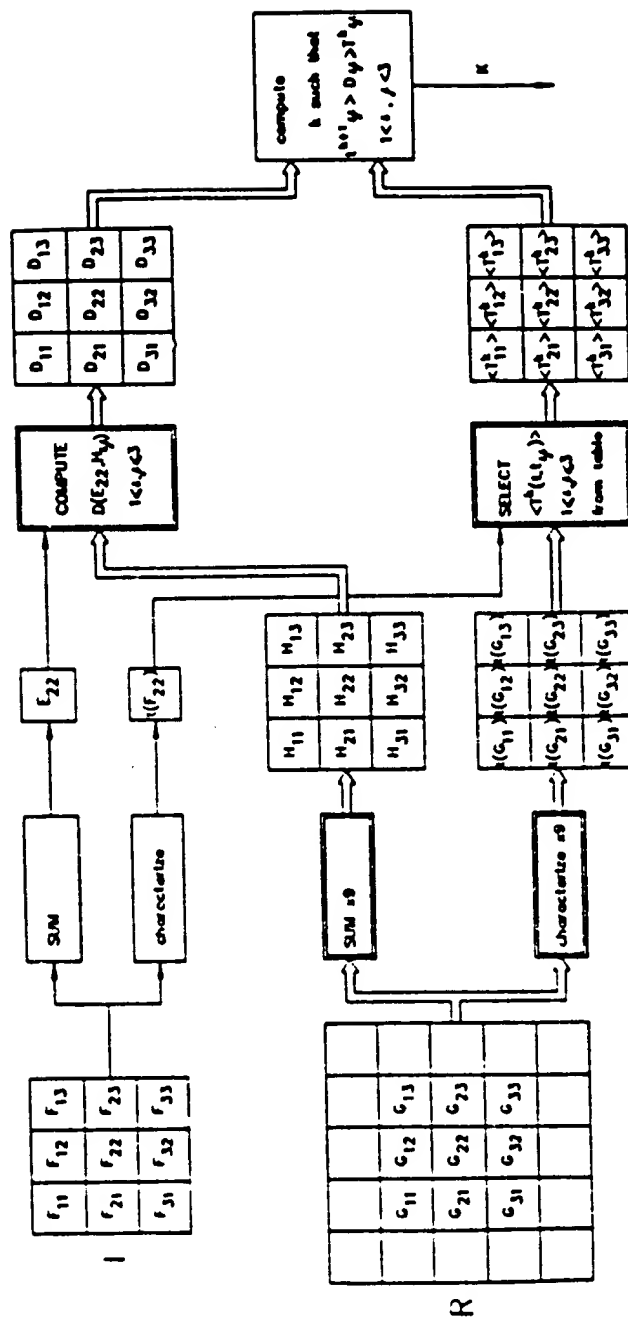
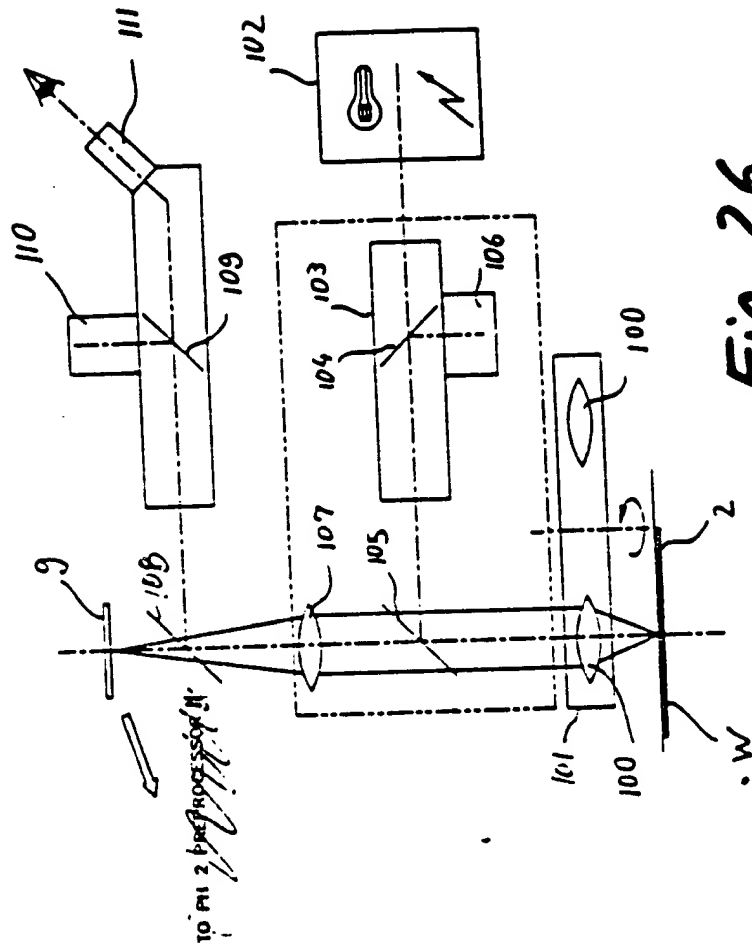


Fig. 25a

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Fig. 26

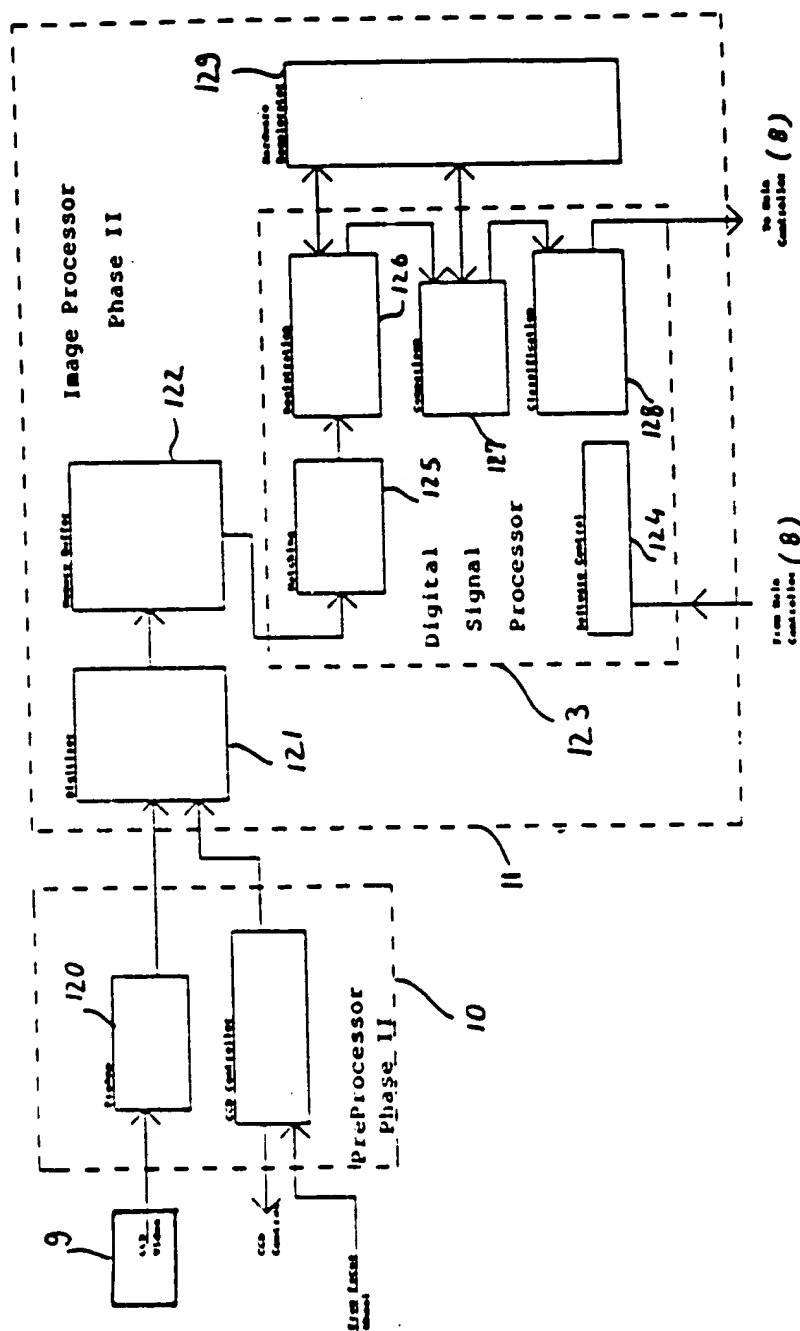


Fig. 27

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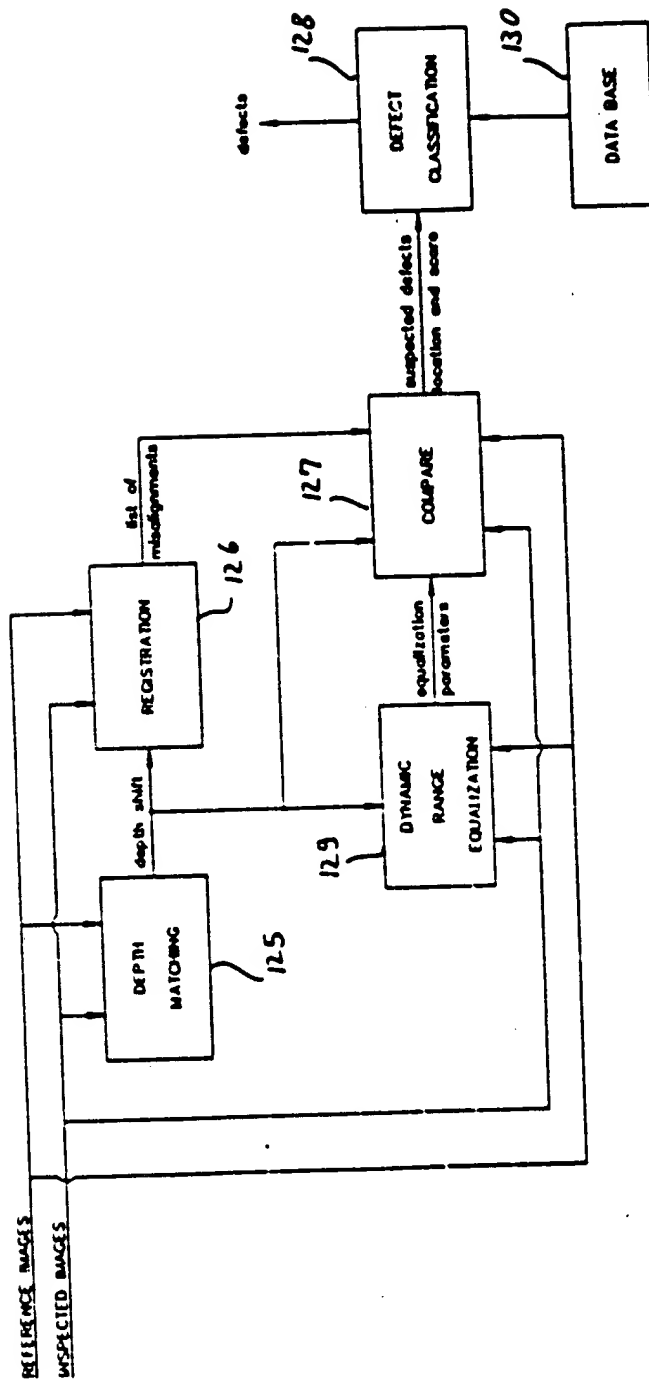
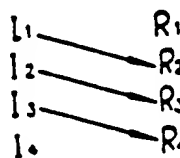
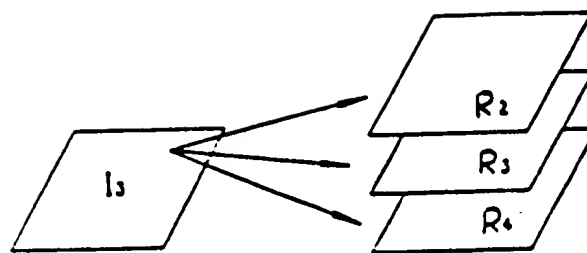


Fig. 28

Fig. 29



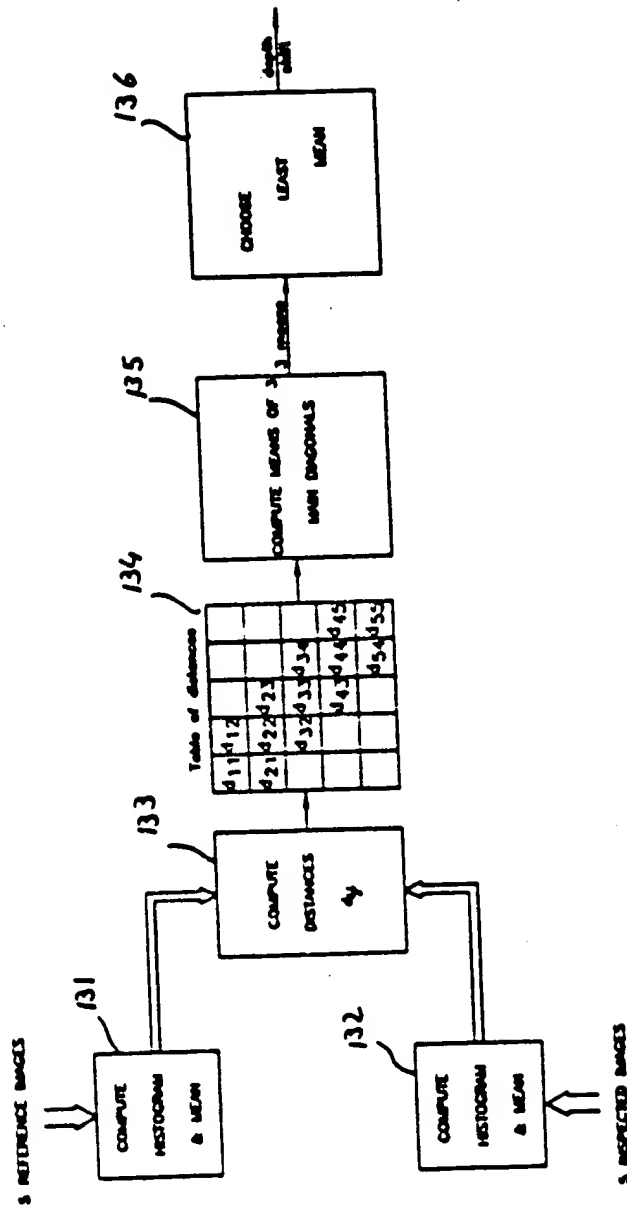
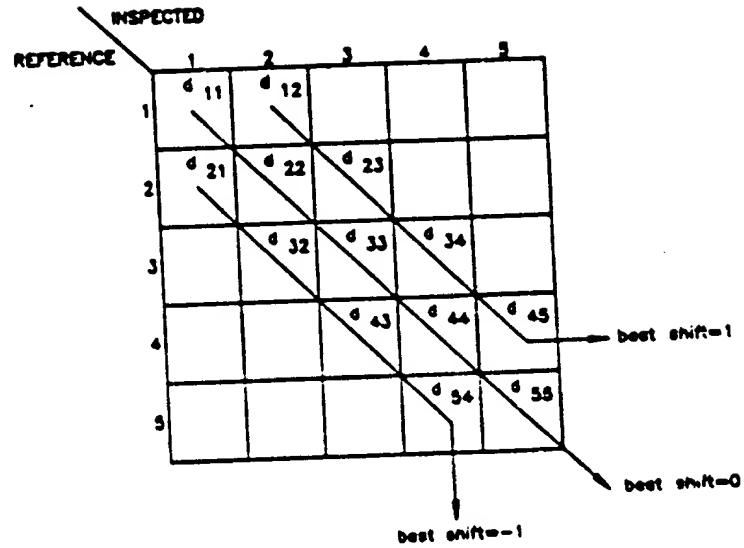
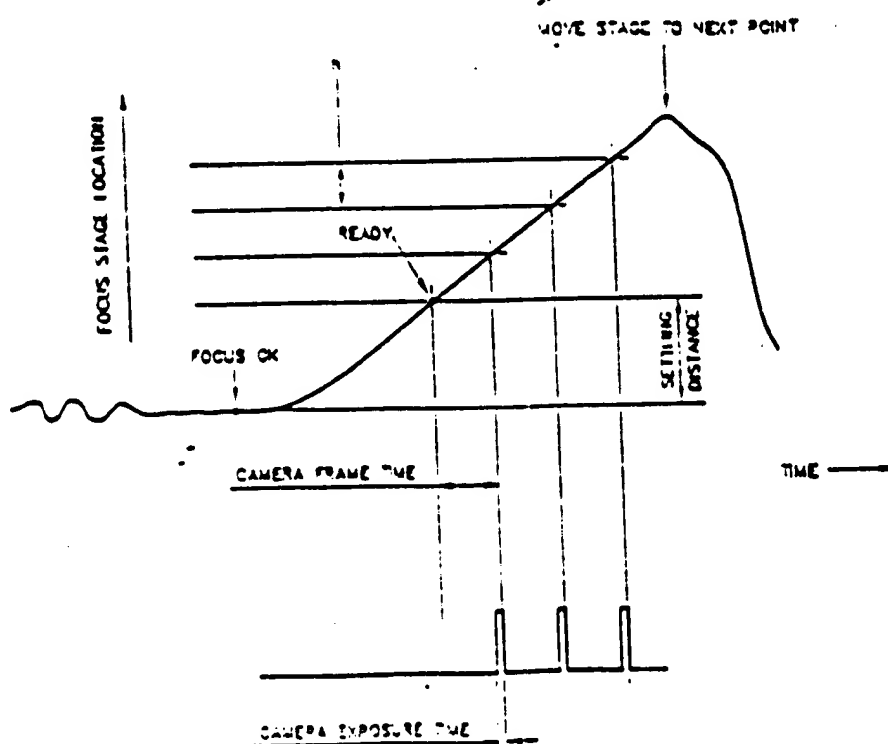
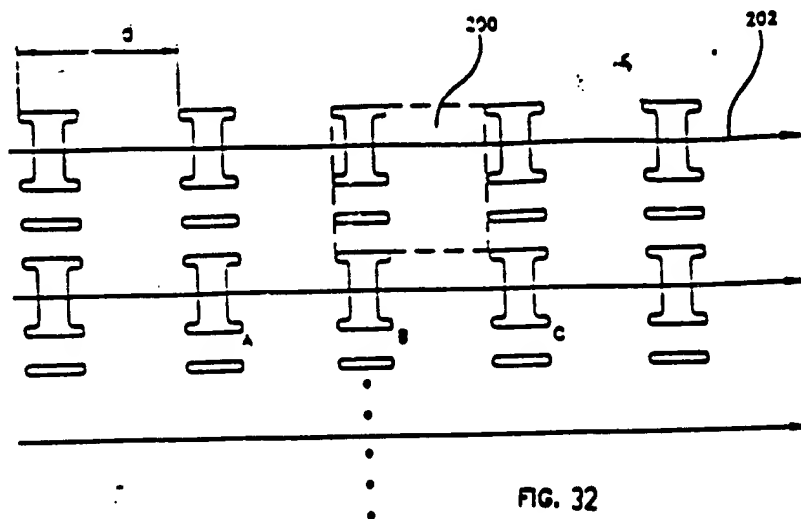


Fig. 30

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Fig. 31



Phase 1 I.P. OverAll Functional Block Diagram
(Repetitive Pattern Inspection)

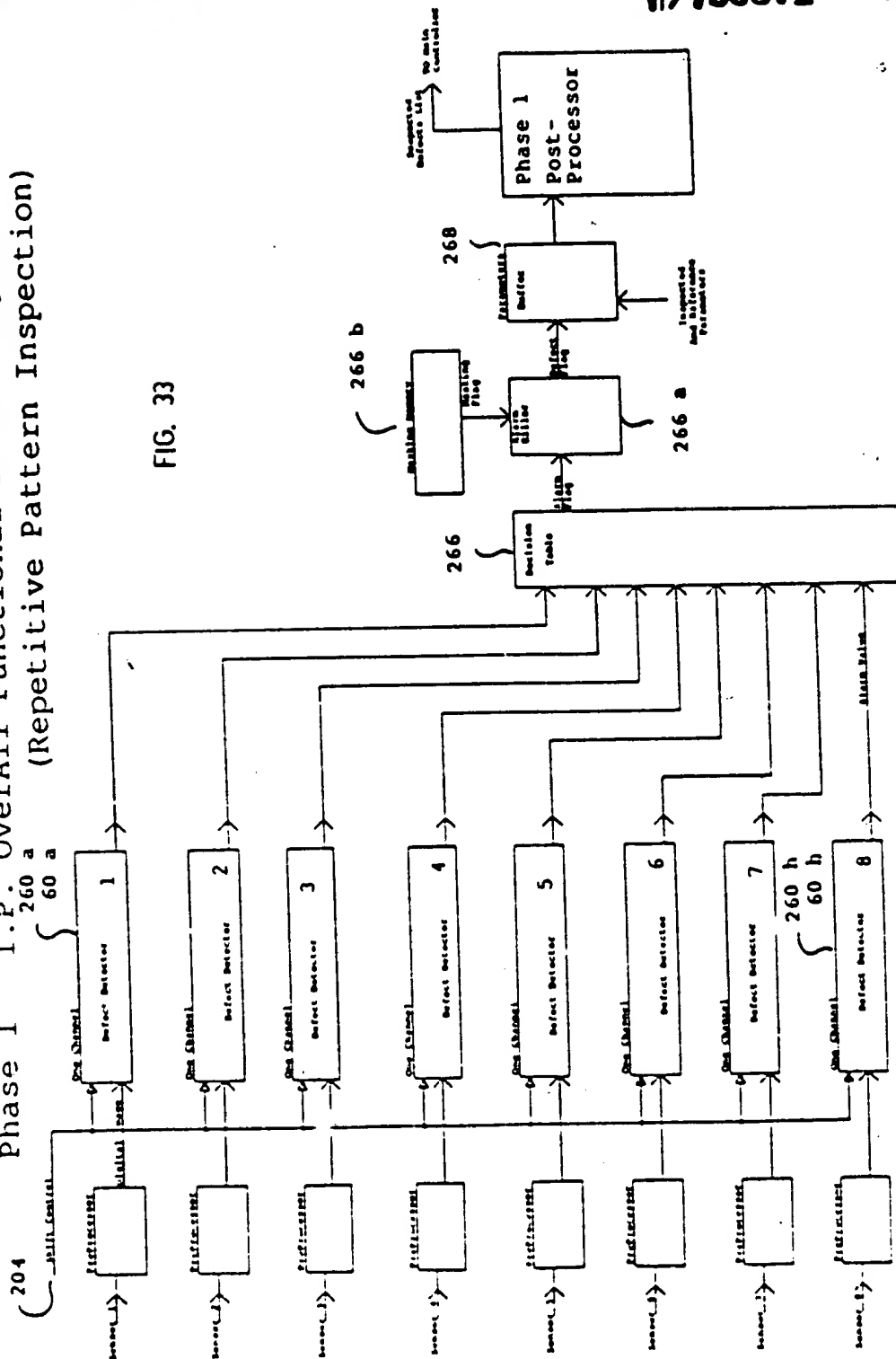
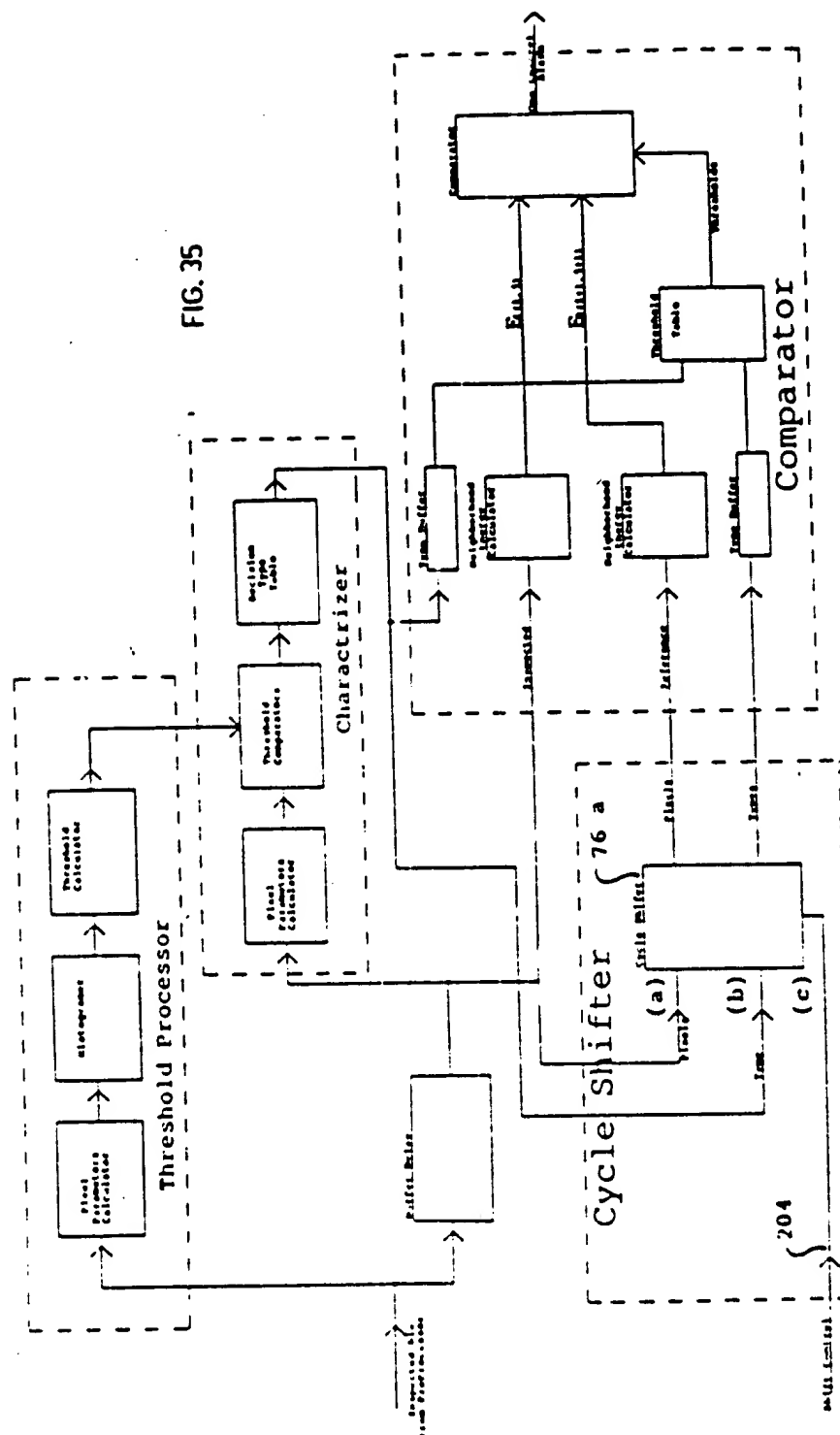


FIG. 33



Defect Detector Block Diagram
(Repetitive Pattern Inspection)

[illegible]

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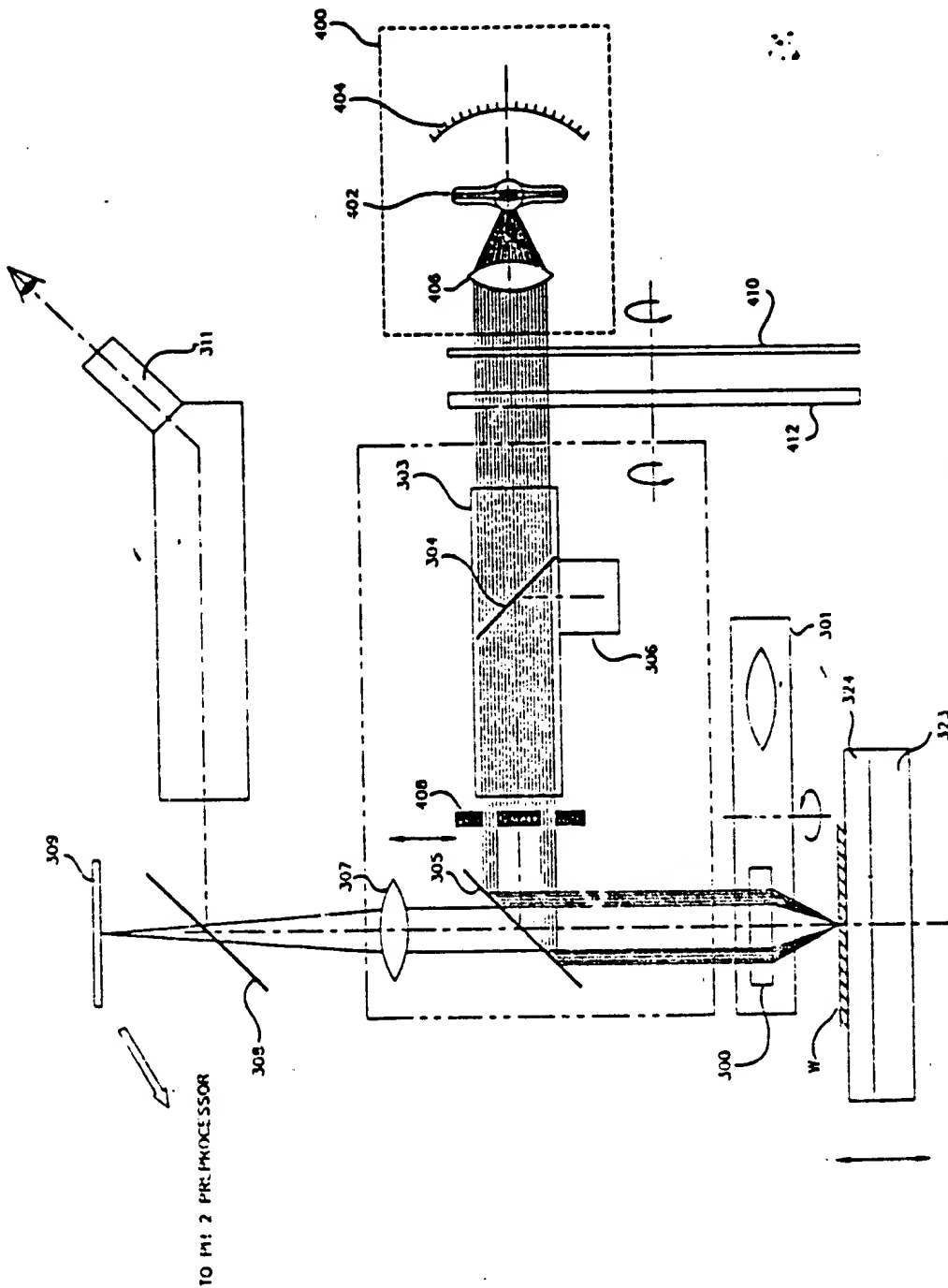


FIG. 36

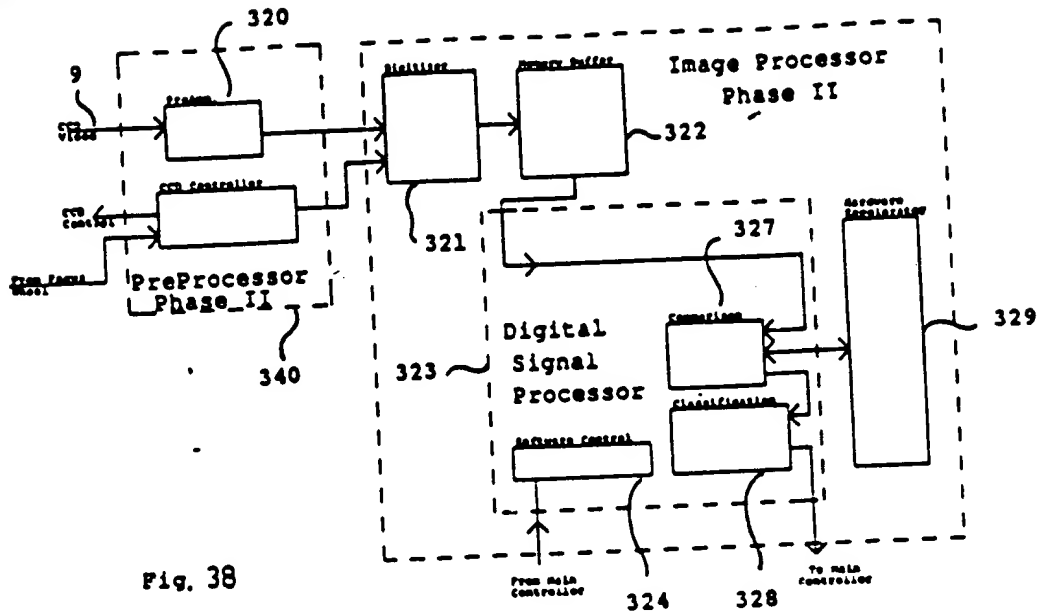


Fig. 38

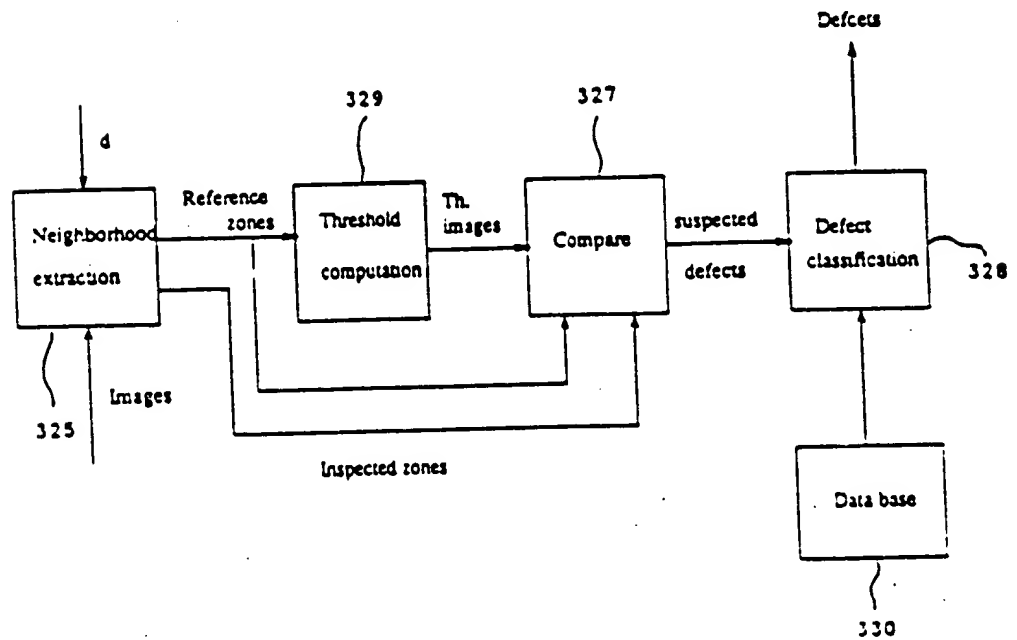


Fig. 39

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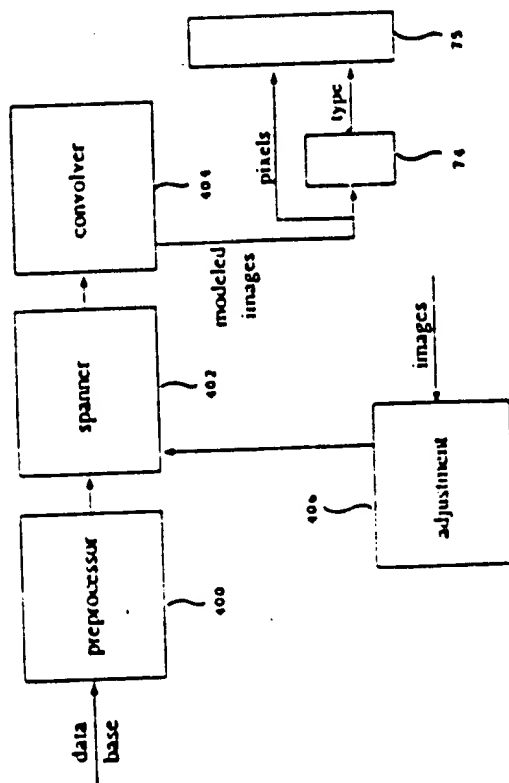
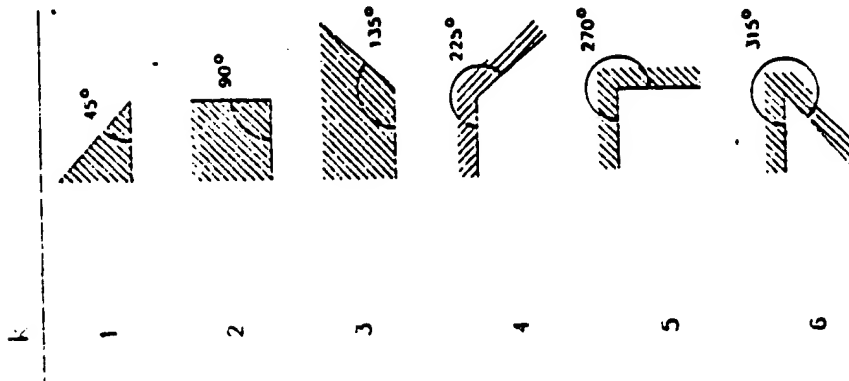


FIG. 40

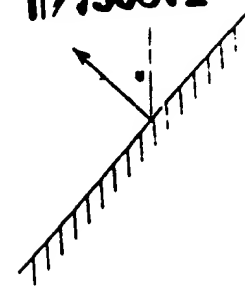
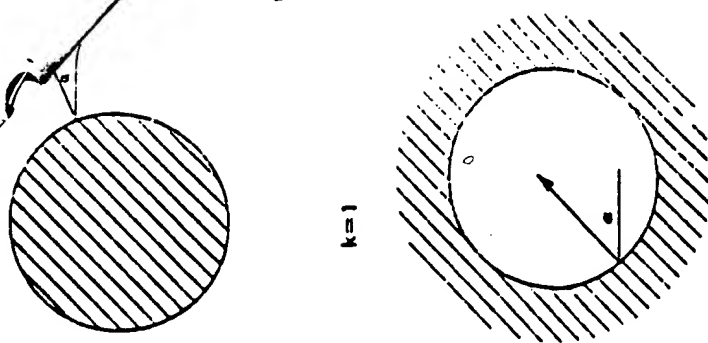


FIG. 42

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k=3

FIG. 41

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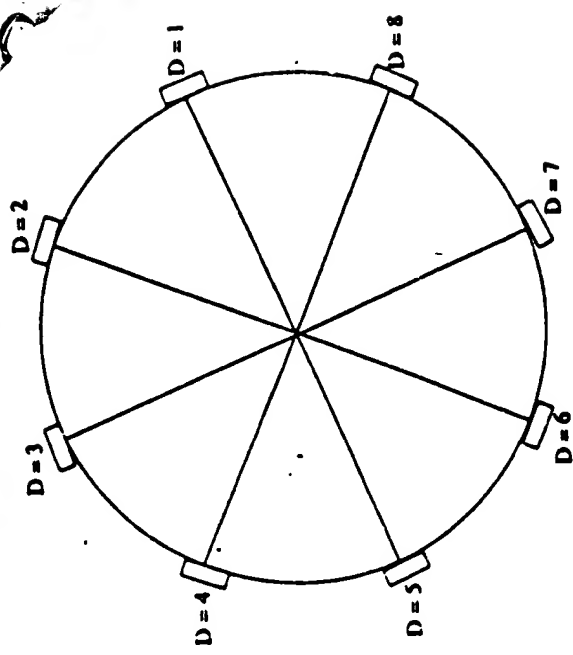
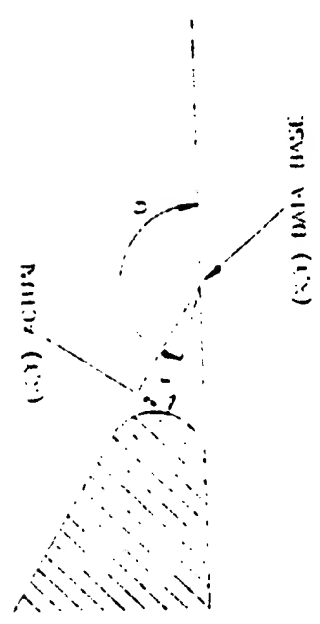


Fig. 43



CORNER SHIFT

FIG. 44

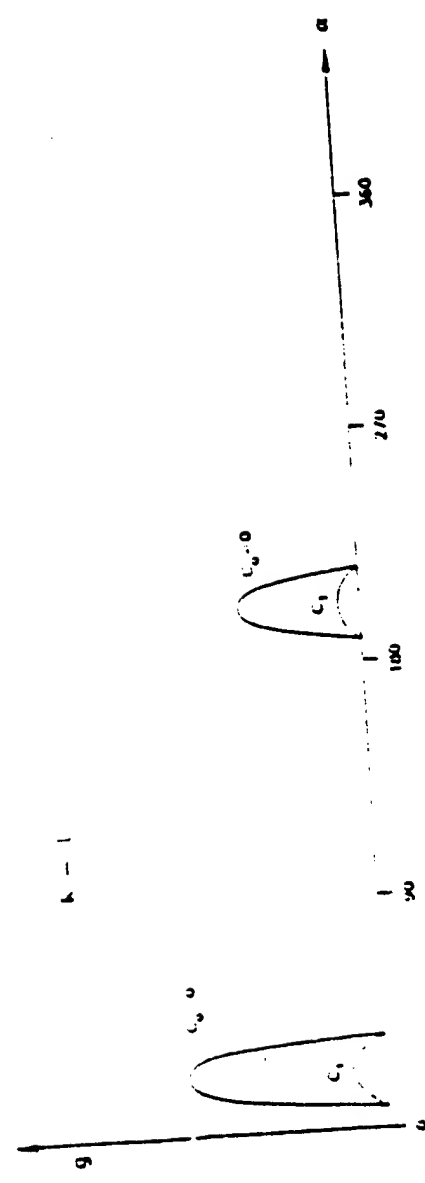
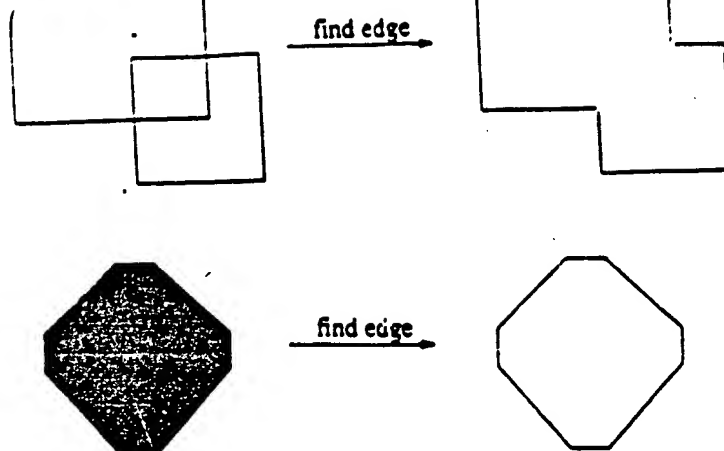


FIG. 45

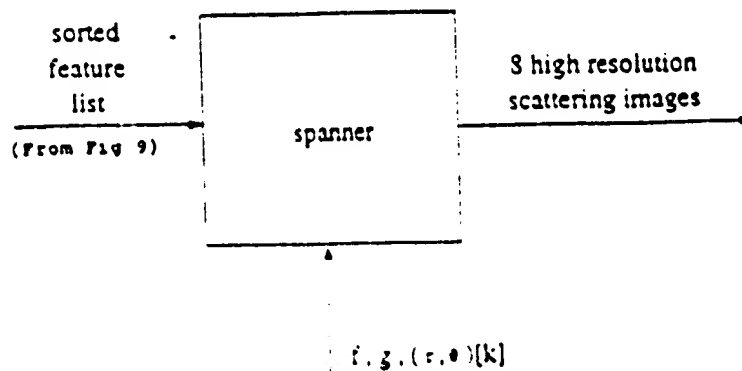


```

graph LR
    DB[DB: polygon data] --> 420[find edge]
    420 -- "segments grouped to shapes" --> 422[find curvature and normal]
    422 -- "segments with c.alpha" --> 424[feature generator]
    424 --> Output[sorted features list]
  
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Fig. 47

Fig. 47



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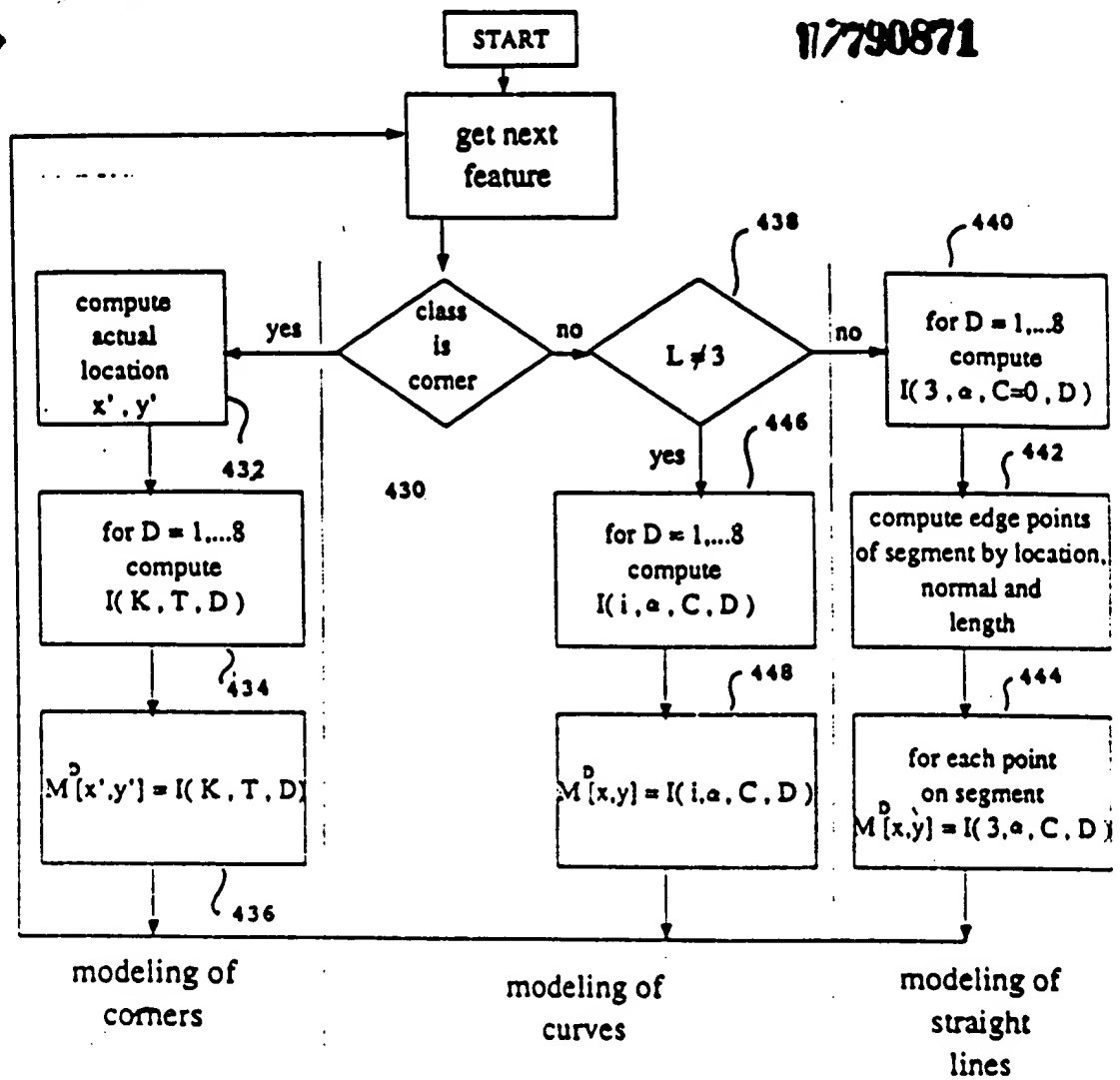


Fig.29 : spanner flow-chart

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